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Spiders of the Udmurt Republic:
fauna, ecology, phenology and distribution

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A synopsis on the spider fauna (Aranei) of the Udmurt Republic consisting of 403 species has been compiled for the first time. It is based on both original and literature-derived data. All species are provided with the studied material, distribution maps, habitat preferences, phenology data and lists of associated species. The primary digital dataset is duplicated in the GBIF repository. The book is intended for zoologists, ecologists, local natural historians and other naturalists.

320 figures, 5 tables, 70 references.

KEY WORDS: spiders, regional fauna, biotopic distribution, phenology, associated species, species associations, East of the Russian Plain.

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Впервые составлена сводка по фауне пауков (Aranei) Удмуртской Республики, включающая в себя 403 вида. В основу работы легли оригинальные материалы и литературные источники. Для всех видов приводится первичный материал, для большинства — карты распространения, обобщенные данные по биотопической приуроченности, фенологии и список сопутствующих видов. Первичные данные продублированы в цифровом виде на репозитории GBIF. Книга предназначена зоологам, экологам, краеведам и натуралистам. 320 рис., 5 табл., библи. 70.

КЛЮЧЕВЫЕ СЛОВА: пауки, региональная фауна, биотопическое распределение, фенология, сопряженные виды, видовые ассоциации, восток Русской равнины

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1. Introduction

1.1. Historical review

The first spider records from the present territory of the Udmurt Republic can be found in the papers by L.K. Krulikovskiy (1864–1920), who published his first observations on *Allohogna singoriensis* (Laxmann, 1770) in the letter to the Russian Entomological Society [Krulikovskiy, 1892: sub *Lycosa Latreillei* Koch]. In that letter, he mistakenly suspected that the species was introduced with a hop shipment from Saratov to Sarapul. Later, *A. singoriensis* was found near the nature monument “Golyushurma” (Alnashy Distr.) and Sarapul, where it was very abundant occurring even in the city outskirts [Krulikovskiy, 1908, 1915]. The data about the historic distribution of this endangered species still remain relevant [Dedyukhin, Sozontov, 2012].

Krulikovskiy also wrote about other spider species encountered by him in the southern part of Sarapul Uezd¹ [Krulikovskiy, 1908]. Besides *A. singoriensis*, the following species were recorded: viz., *Araneus diadematus* (published as «*Epeira diadema* L.»), *Misumena vatia* (published as «*Thomisus citrons*») and *Argyroneta aquatica*, some specimens of *Xysticus* (Thomisidae) and jumping spiders (Salticidae); there were no locality or other accompanying information published. In his papers, Krulikovskiy used the old regional name – “Vyatka Province” – which does not completely correspond to the present-day Udmurtia, therefore it is unclear whether his records really belong to the region at hand.

Since Krulikovskiy’s pioneer works, spiders of the Udmurt Republic remained out of sight of researchers for a long time. Sixty years later, V.P. Tyshchenko recorded 10 more spider species from the “Udmurtskaya ASSR” in his famous book [Tyshchenko, 1971]: *Argenna subnigra*, *Drassyllus praeficus* (recorded as *Zelotes p.*), *Evarcha laetabunda*, *Hypsosinga sanguinea*, *Lathys humilis*, *Leptyphantes minutus*, *Pirata piscatorius*, *Sibianor aurocinctus* (recorded as *Bianor aenescens* (Sim., 1868)»), *Walckenaeria cucullata* (recorded as *Wideria c.*) and *Zora nemoralis*. Records of almost all these species have been confirmed by newly collected materials, except for *E. laetabunda*. The record of the latter species could have actually belonged to the far more common species *Evarcha michailovi*, which is similar to *E. laetabunda* [D.V. Logunov, pers. comm.].

Between 1978 and 1981, T.L. Zubko (Pastukh), a MSc student from the Udmurt State University, carried out the first focused study on the regional spider fauna under the supervision of Dr V.I. Roshchinenko. They collected samples from four districts, Vavozh, Zavyalovo, Syumsi & Uva, which were included in Zubko’s MSc thesis and then published as a joint paper [Zubko, Roshchinenko, 1981]. It was the first faunistic paper devoted to spiders of the region at hand, containing a list of 72 species in 16 families but without exact locality data. In the MSc thesis, Zubko mentioned that Dr A.A. Zyuzin, a notable spider expert from the Institute of Plant Protection (Leningrad), confirmed species identifications.

¹ The smallest administrative unit in the Russian Empire until 1917.

Although Zubko continued to occasionally collect spiders, her spider collections were unfortunately lost (Zubko, pers. comm.). She only prepared and published a synopsis on three species – *A. singoriensis*, *Arctosa perita* and *Eresus kollari* (recorded as *E. cinnaberinus*) – in the “Red data book of animals of the Udmurt Republic” [Zubko, 2001].

Our spider investigations started in the “Nechkinsky” National park in 2007, then expanded to the entire territory

of the Republic in 2010 [Sozontov, Roshchinenko, 2012]. A detailed account on the history of arachnological studies in the Udmurt Republic, particularly on the chronology of publications and the dynamics of discovery of its species richness, was published by Sozontov [2013]. In sum, the regional spider list has been extended from 81 to 403 species (Table 1). Figure 1 shows the data accumulation progress.

Table 1. Data accumulation in the course of undertaken arachnological research

Reference	Species number	New records	Total number of species
Krulikovskiy, 1882	1	1	1
Krulikovskiy, 1908	4	3	4
Krulikovskiy, 1915	1	0	4
Tyshchenko, 1971	10	10	14
Zubko, Roshchnenko, 1981	72	66	80
Zubko, 2001	3	1	81
Sozontov, Esyunin, 2012	195	122	203
Sozontov, 2012b	17	5	208
Sozontov, 2012a	1	1	209
Adakhovskiy et al., 2012a	2	–	209
Sozontov, 2013	26	–	209
Sozontov, Esyunin, 2014	158	47	256
Sozontov, Shirobokova, 2014	40	40	296
Ermolaev et al., 2014	26	2	298
Sozontov, Esyunin, 2015	2	–	298
Esyunin, Sozontov, 2015	1	–	298
Sozontov, 2015b	18	4	302
Sozontov, 2015a	34	9	311
Sozontov, 2018a	402	91	402
Sozontov, 2021	403	1	403

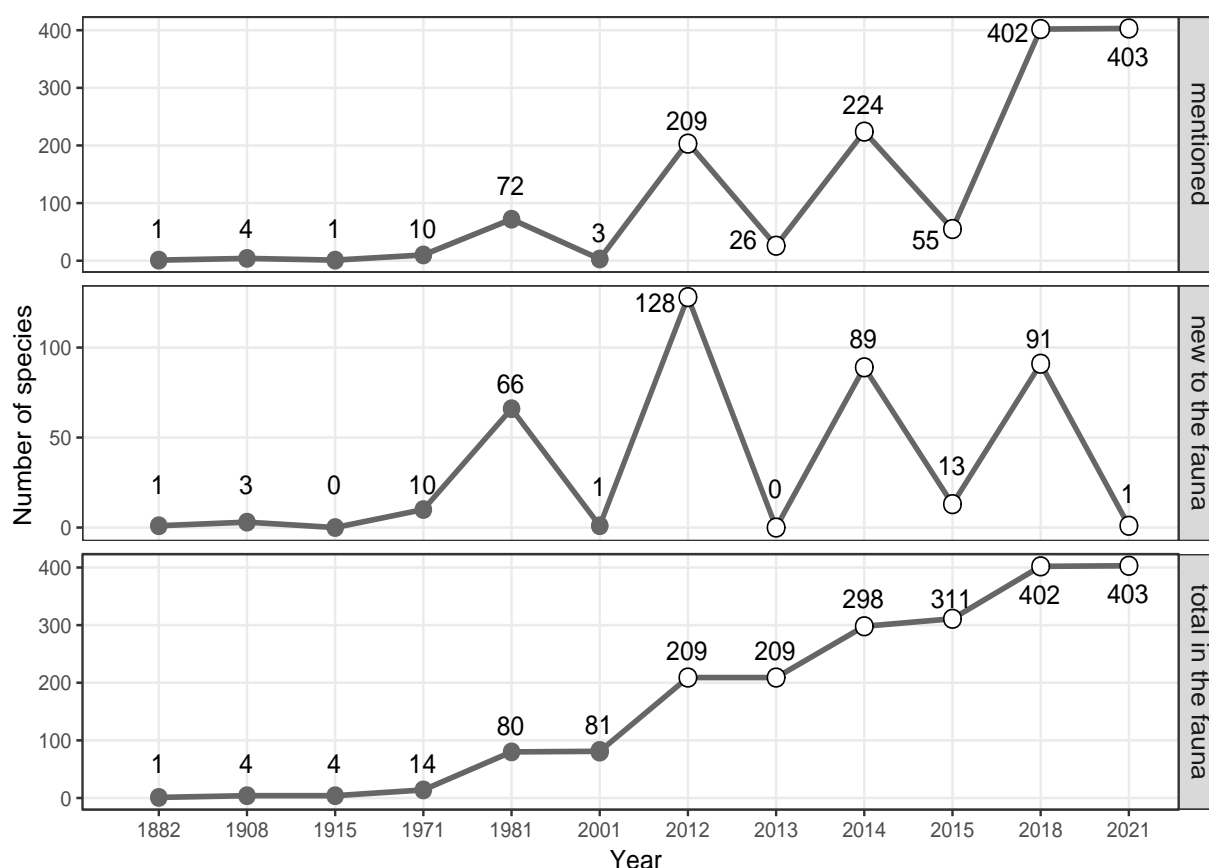


Fig. 1. The number of spider species reported, first records and the increase of total species richness in the regional fauna by years. White circles show our own contributions.

The book aims to summarize all the accumulated data on spiders of the Udmurt Republic to date: i.e., the current state of the knowledge of regional spider fauna, regional and general species distribution, phenology, and habitat preferences, including an application to monitoring and conservation.

1.2. Study area

The Udmurt Republic, or Udmurtia, is located in the eastern part of Russian Plain bordering with the Middle Cis-Urals and covering the territory of about 42 00 km². The hilly terrain is composed of up- and lowland areas, merging with the Ural monticulate area and ridges in

the east [Illarionov, 2009]. Well-defined scalariform watersheds, a dense river network with asymmetrical slopes, the presence of residual hills and erosion processes are the specific characteristics of regional relief [Podsosova, 1972].

The climate of Udmurtia is temperate-continental. Until 1972, the long-term average annual temperature was equal to 1–2 °C [Deryugina, Morgunova, 1972], raising to 2–3 °C in 2009 [Perevedentsev et al., 2009]. Temperature oscillations are very smooth in a long-term scale and very sharp within some months or even days. Long-term average yearly precipitation is 574 mm, of which two-thirds fall during the warm part of a year, and one third falls in the cold part [Shantalinskiy, Sherstyukov, 2009].

The Udmurt Republic contains a dense network of natural and artificial water objects, with the total length reaching 30 000 km; all of them belong to the Kama and Vyatka water basins [Rysin, 2009a]. Large artificial water bodies strongly affect environmental conditions; of them the largest are the Nizhnekamskoye water reservoir (surface area 2580 km²; volume 13 km³), the Votkinskoye water reservoir (1120 km²; 9,3 km³), the Izhevskiy pond (24 km², 0,08 km³) and the Votkinskiy pond (18 km², 0,09 km³) [Rysin, 2009a].

The territory of Udmurtia is covered with coniferous forests, of which cover has declined currently due to agricultural activity (see below under the vegetation section). However, this legacy explains most of regional soil peculiarities. The main soil-forming materials in Udmurtia are the cover and carbonate clays and loams, aeolian sands and sandy clay, as well as alluvial and deluvial deposits. The soddy-podzolic soils with a varying level of the podzol content dominate most of the territory of Udmurtia [Rysin, 2009b]. Such soil type is most typical for northern, western and, in part, central regions, which is related to a wide distribution of coniferous forests. The grey forest soils formed under broad-leaved forests and meadow vegetation are more typical in southern regions [Varaxin, Kovrigo, 1972; Kuznetsov, 1994].

A total of some 2070 vascular plant species have been recorded from the Udmurt Republic. Its territory mainly lies in the subtaiga zone, and hence the regional flora is of the boreal-temperate type by all its characteristics [Baranova, Puzyrev, 2012]. According to the modern botanical-geographical zonation [Shadrin, 1999] (Figure 2), the northern third of Udmurtia belongs to the southern taiga subzone. The main part of its territory belongs

to the subtaiga mixed forest subzone, which consists of two forest types: the predominantly coniferous forests with the presence of *Tilia cordata* Mill. and the predominantly broad-leaved forests with the presence of *Quercus robur* L. and *Corylus avellana* L. [Baranova et al., 2010]. The southernmost part of Udmurtia is strongly influenced by the forest-steppe vegetation [Shadrin, 1999].

Currently, forests cover some 47% of the Republic territory. Pines (*Picea fennica* (Regel) Kom. and *P. obovata* Ledeb.) are the main tree species of woody communities here, covering up to 87% of area 100 years ago [Efimova et al., 1972; Baranova, 2009]. Meadows cover about 8% of the territory [Gosudarstvennyi doklad ..., 2007]; their origin is usually caused by agricultural activity [Efimova et al., 1972]. Grasses (Poaceae) predominate in most of the meadow ecosystems [Baranova, 2009]. It should be noted that steppification processes in the Udmurt Republic are caused by both natural processes, and a human impact on the environment. These processes are most notable on slopes of southern exposure [Shadrin, 1995, 1999]. Bogs occupy about 3% of the territory [Efimova et al., 1972; Baranova, 2009]. A considerable part of the region at hand is occupied by arable lands (c. 40%) and pastures (c. 5%) [Kuznetsov, 1994].

In sum, a high diversity of environmental conditions in Udmurtia is due to the relief heterogeneity, a multifaceted human activity and its unique position at the crossing of various landscape zones within the limits of boreal ecotone (sensu Kolomyts [2005]).

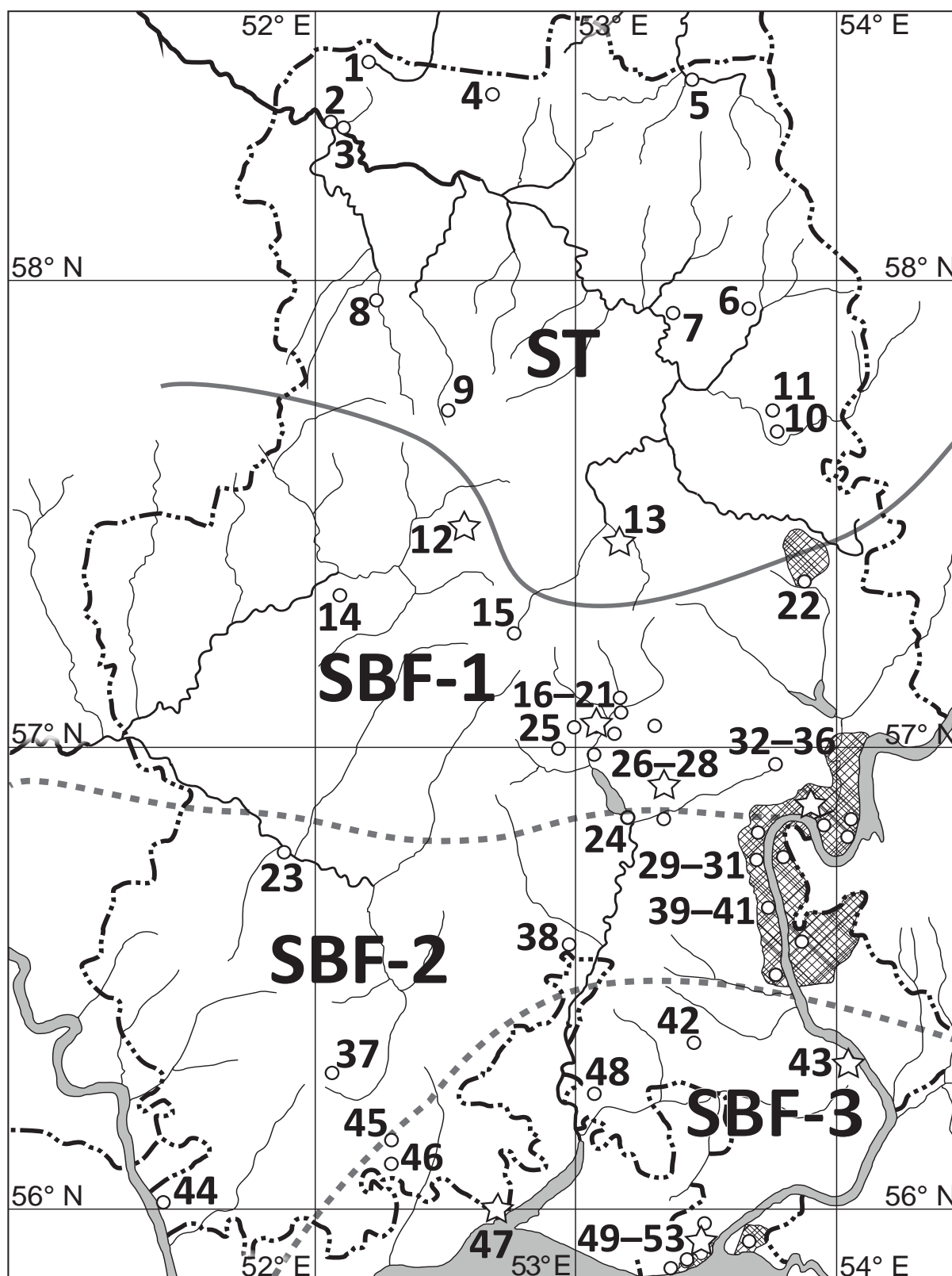


Fig. 2. The map of the Udmurt Republic. ST — southern taiga zone, SBF — subboreal forest zone, SBF-1 — subtaiga mixed forests (predominated by coniferous) subzone, SBF-2 — subtaiga mixed forests (predominated by broadleaved) subzone, SBF-3 — subtaiga mixed forests (under forest-steppe's influence) subzone. The delimitation of the Republic follow Gribova et al. [1980] and Shadrin [1999]. The hachured areas accord to protected natural areas. Stars show the well-studied local faunas.

1.3. Studied habitats

The following grouping of all the studied sites into 21 habitat types and their hierarchical classification follow Sozontov [2018a] (Table 2). Their detailed specification and brief descriptions are given below.

1. *Quercus* forests are narrow strips of dense woodland along large river floodplains, mainly consisting of oak (*Quercus robur*), sometimes accompanied by aspens (*Populus tremula* L.), elms (*Ulmus glabra* Huds. or *U. laevis* Pall.) and small-leaved limes (*Tilia cordata*); leaf litter is conspicuous and deep, herbaceous layer is thinned or sporadically absent.

2. Riverain deciduous forests occupy bottomlands and terraces near floodplains with fertile and moist soils, consisting of *Populus tremula*, *Ulmus glabra* and *Acer platanoides* L. in different proportions.

3. *Tilia* forests are usually of a secondary origin, being resulted from tree logging. *Tilia cordata* accounts for 90% of the forest stands, sometimes accompanied with *Betula pendula* Roth, *Ulmus glabra*, *Pinus* sp. and *Picea* sp. The herbaceous layer is dense, being composed of shade-tolerant nemoral herbs.

4. *Pinus* forests with *Pinus sylvestris* L. of the three kinds have been studied: lichen pine forests, bilberry pine forests and cowberry pine forests. The last two could contain up to 20% of birch and/or spruce in the tree stratum.

5. *Abies-Picea* forests occur widely in the northern part of Udmurtia. Undergrowth is poor due to crown density and the lack of insolation. A notable trait of these forests is a dense,

often continuous moss cover.

6. Dark coniferous forests with *Tilia* are zonal for the subtaiga. The dominant positions belong to *Picea*, *Abies* and *Tilia*. The herbaceous layer is dense, often continuous, the moss cover is mosaic or absent.

7. Floodplain steppified meadows are intrazonal, occurring in floodplains of big to medium-sized rivers in the southern half of Udmurtia. They are not flooded annually, and if they are, for a short period of time.

8. Bottomland meadows are located in lowest parts of river valleys and are flooded annually. Subsoil waters get near to the ground level, which can be constantly wet during the summer. The herbaceous layer is usually high and dense, being thinned in places. The vegetation consists mostly of Poaceae and Cyperaceae, with addition of *Ranunculus* and *Galium* herbs.

9. Upland meadows are usually of a secondary origin, resulted from tree logging in watersheds. The herbaceous layer consists of various herbs (*Geranium pratense* L., *Campanula patula* L., *Knautia arvensis* (L.) Coult., *Ranunculus polyanthemus* L., *Achillea millefolium* L. etc) and grasses (*Dactylis glomerata* L., *Bromus inermis* (Leyss.) Holub, *Festuca pratensis* Huds., *Poa pratensis* L. and *P. angustifolia* L.) species.

10. Sloping steppe meadows are situated in the slopes of southern, east-southern and east exposition, mainly near medium-sized or big rivers. The fertile soil layer is shallow, and there are sites with erosion and debris. The following plant species are specific for these meadows: *Fragaria viridis* (Dutch.) Weston, *Vicia tenuifolia* Roth, *Gypsophila* sp. and even *Stipa* sp.

Table 2. Hierarchical classification of the studied habitats of Udmurtia

	Level II	Level III	Level IV
Level I. All the habitats	1. Forests	1.1. Floodplain deciduous forests	1.1.1. <i>Quercus</i> forests
			1.1.2. Riverain deciduous forests
		1.2. Watershed <i>Tilia</i> forests	1.2.3. <i>Tilia</i> forests
		1.3. Watershed coniferous forests	1.3.4. <i>Pinus</i> forests
			1.3.5. <i>Abies-Picea</i> forests
		1.4. Watershed mixed forests	1.4.6. Dark coniferous forests with <i>Tilia</i>
	2. Meadows	2.5. Floodplain meadows	2.5.7. Floodplain steppified meadows
			2.5.8. Bottomland meadows
		2.6. Watershed meadows	2.6.9. Upland meadows
			2.6.10. Sloping steppe meadows
	3. Ecotones	3.7. Forest edges	3.7.11. Edges and glades of deciduous forests
			3.7.12. Edges and glades of mixed forests
			3.7.13. Edges and glades of coniferous forests
	4. Wetlands	4.8. Bogs	4.8.14. Open raised bogs
			4.8.15. Forested raised bogs
		4.9. Banks and shores	4.9.16. Open lake and pond shores
			4.9.17. Open river banks
			4.9.18. <i>Alnus</i> groves
	5. Anthro-pogenic habitats	5.10. Indoor habitats	5.10.19. Heated dwellings
			5.10.20. Unheated premises
		5.11. Agrocoenosises	5.11.21. Agrocoenoses

11–13. Edges and glades of deciduous (11), mixed (12) and coniferous (13) forests. These habitats are sorts of ecotones, mostly between forests and meadows. Sometimes there are freestanding trees of the same species as those bordering forests. Yet, shrubs and undergrowth usually present, especially near the forest.

14. Open raised bogs. Sparse trees are represented by pines (*Pinus* sp.), willows (*Salix* spp.) and dwarf birch (*Betula nana* L.). The moss cover is continuous; the herbaceous layer is thinned, consisting of *Scheuchzeria palustris* L., *Eriophorum vaginatum* L., *Oxycoccus palustris* Pers. and occasionally *Drosera* spp.

15. Forested raised bogs have tree stands of an average density. The main tree species is pine (*Pinus* sp.). The following species are common in the herb-shrub layer: *Ledum palustre* L. and *Chamaedaphne calyculata* (L.) Moench, sometimes *Salix* spp., *Vaccinium uliginosum* L. or large specimens of *Vaccinium myrtillus* L. and others. The vegetation here is thinned but much richer than that of open bogs.

16. Open lake and pond shores of oxbow lakes and artificial ponds. The riparian vegetation forms a narrow strip around the water body where the ground is sloping to waterside. The herbaceous layer is dense, mostly consisting of hygrophytes.

17. Open river banks are sandy/pebble banks of middle-sized and big rivers. The thinned vegetation is dispersed along shores/banks and on sites of shallow water, consisting of *Chrysosplenium alternifolium* L., *Sagittaria sagittifolia* L., *Scirpus sylvaticus* L., *Typha* spp., *Phragmites* spp. and *Carex* spp.

18. Alnus groves are composed of *Alnus incana* (L.) Moench, with *Salix triandra* L., *S. alba* L., *S. viminalis* L., sometimes being accompanied with *Populus tremula* or *Alnus glutinosa* (L.) Gaertn. in the southern regions of the Republic. The herb layer consists of *Urtica dioica* L., *Filipendula ulmaria* (L.) Maxim., *Aegopodium podagraria* L. and other herbs preferring fertile soils and enough moisture.

19. Heated dwellings are houses or service buildings with an air temperature not less than +10°C all year round.

20. Unheated premises are service buildings where an air temperature being equal to outdoor one, varying daily and annually.

21. Agrocoenoses include croplands of different scales and kinds: viz., orchards, flower and kitchen gardens, private subsidiary farms. Arable fields have not been investigated.

2. Methodology

2.1. Material and collecting methods

Field studies were carried out from May to September, in the period 2007–2018 by using standard collecting methods: pitfall-traps, sweeping, litter sifting and manual collecting [Oliger, 2010; Marusik, Kovblyuk, 2011, Golub et al., 2012]. In total, some 35,000 spider specimens were collected, of which two thirds were adults. The majority of studied materials is shared between the collections of the Institute of Plant and Animal Ecology UB RAS (IPAE, Ekaterinburg, Russia) and the Perm State University (PSU, Perm, Russia).

The Zoological Museum of the Moscow State University (ZMMU) holds two specimens of *Tetragnatha shoshone* Levi, 1981.

Besides own materials, the spider collections of S.V. Shirobokova, K.S. Tatarkin, E.S. Shirobokova, A.V. Uskova and S.V. Dedyukhin were used, as well as specimens occasionally collected by Ya.I. Chuvashева, I.V. Ermolaev, O.A. Ivanova, A.V. Illyina, A.N. Izhboldina, V.I. Kapitonov, A.R. Musina, T.A. Shmykov, N.A. Shubina, M.N. Zagumenov, V.Yu. Zakharov. The studied material was collected from 53 geographical sites of Udmurtia (Figure 2), but long-term investigations were

undertaken in six of them: viz., the "Siva" field station, Golushurma, Sokolovka, "Sirius" SNT, Novye Zyatci, and Chutyr. A complete list of the studied sites is given in Table 3.

All raw data (label records, collecting dates, ecological and biogeographical traits of the species, geographical

coordinates and other attributes of localities) are digital. The database has two forms: linked MS-Excel sheets and the "Spiders of the Udmurt Republic, Russia" dataset in the GBIF repository available online at: <https://www.gbif.org/ru/dataset/01f33154-d6f7-4079-a9e2-f0a9ca8e8630>.

Table 3. List of the collecting localities

№	Locality	District	Coordinates
1	Perelom	Yar	58.444° N, 52.179° E
2	Barmashur	Yar	58.279° N, 52.112° E
3	Yar	Yar	58.240° N, 52.114° E
4	Lyum	Glazov	58.308° N, 52.423° E
5	Sergino	Balezyno	58.409° N, 53.531° E
6	Kez	Kez	57.905° N, 53.715° E
7	S. Cheptsa	Kez	57.889° N, 53.405° E
8	Yukamenskoe	Yukamenskoe	57.887° N, 52.247° E
9	Krasnogorskoe	Krasnogorskoe	57.716° N, 52.518° E
10	Baiyguerez	Debesy	57.652° N, 53.758° E
11	Varni	Debesy	57.682° N, 53.745° E
12	Novye Zyatsy	Igra	57.434° N, 52.515° E
13	Chutyr	Igra	57.359° N, 53.247° E
14	Selty	Selty	57.305° N, 52.135° E
15	Starye Zyatsy	Yakshur-Bodya	57.352° N, 52.659° E
16	Selychka	Yakshur-Bodya	57.082° N, 53.206° E
17	Chernushka	Yakshur-Bodya	57.029° N, 53.091° E
18	25 km Yakshur-Bodya' route	Yakshur-Bodya	57.088° N, 53.205° E
19	16 km Yakshur-Bodya' route	Yakshur-Bodya	56.994° N, 53.175° E
20	SNT «Sirius»	Yakshur-Bodya	57.031° N, 53.141° E
21	Skipidarka	Yakshur-Bodya	57.072° N, 53.304° E
22	Sharkan	Sharkan	57.301° N, 53.870° E
23	Vavozh	Vavozh	56.774° N, 51.924° E

Table 3 (continuation).

№	Locality	District	Coordinates
24	Izhevsk		56.851° N, 53.226° E
25	Lyukshudya	Zavyalovo	56.961° N, 53.024° E
26	Volozhka	Zavyalovo	56.928° N, 53.079° E
27	Khokhryaki	Zavyalovo	56.923° N, 53.317° E
28	Kabanikha	Zavyalovo	56.831° N, 53.345° E
29	Doksha	Zavyalovo	56.818° N, 53.767° E
30	Golyany	Zavyalovo	56.737° N, 53.747° E
31	Golyany, left bank of Kama	Zavyalovo	56.762° N, 53.789° E
32	Ledukhi	Votkinsk	56.895° N, 53.806° E
33	"Siva" biostation	Votkinsk	56.830° N, 53.903° E
34	Siva's delta	Votkinsk	56.820° N, 53.912° E
35	Noviy	Votkinsk	56.823° N, 54.080° E
36	Volkovkiy	Votkinsk	56.782° N, 54.033° E
37	Porshur	Mozhga	56.293° N, 52.055° E
38	Malaya Purga	Malaya Purga	56.555° N, 53.002° E
39	Makarovo	Sarapul	56.713° N, 53.751° E
40	Nechkino, left bank of Kama	Sarapul	56.649° N, 53.806° E
41	Dulesovo	Sarapul	56.548° N, 53.782° E
42	Bima	Sarapul	56.229° N, 53.583° E
43	Sokolovka	Sarapul	56.273° N, 56.273° E
44	Krymskaya Sludka	Kizner	55.999° N, 51.427° E
45	Stariy Utchan	Alnashy	56.168° N, 52.324° E
46	Pirogovo	Alnashy	56.106° N, 52.350° E
47	Golushurma ²	Alnashy	56.002° N, 52.701° E
48	Baysary	Kiyasovo	56.283° N, 53.052° E
49	Byrgynda	Karakulino	55.888° N, 53.421° E
50	Shignanda	Karakulino	55.886° N, 53.446° E
51	Ust'-Belsk	Karakulino	55.896° N, 53.508° E
52	Cheganda	Karakulino	55.962° N, 53.518° E
53	Malayashy	Karakulino	55.952° N, 53.681° E

² At present, "Golyushurma" is a nature monument situated in the abandoned village named "Golyushurmy", which used to belong to Elabuga District of Vyatka Province. The latter province was divided between few regions at the beginning of the 20th century. Now, Golyushurma belongs to the Udmurt Republic rather than to Kirov Region, as it was mistakenly suspected by some authors [Shernin, 1971; Krasnobayev, 2004].

2.2. Data processing and visualization

The Indicator Value (IndVal) procedure [Dufrêne, Legendre, 1997] was used to assess habitat preferences for the studied species because: (1) the index helps to obtain a non-subjective evaluation of biotopic preferences; (2) it provides a precise quantitative estimation of these relationships, and (3) the estimations can be statistically tested. The APCF form of IndVal (Abundance-Presence / absence-Concentration-Fidelity) [Podani, Csányi, 2010] was chosen as being the simplest and flexible one as compared to other indices. The index varies from 0 to 100%. High values reflect strong preferences of a species to a particular habitat type, low values – indifference.

The IndVal has been calculated for those species that are presented by more than five specimens and based on the samples (a set of specimens collected at the same day, geographical location, and habitat type) containing not less than 2 species. Several levels of the hierarchical habitat classification have been considered (Table 2): viz., from the level I uniting all the types to the level IV in which all 21 types are separated. The classification follows the scheme used by Sozontov [2018a: P. 82].

Lists of associated species (=additional, *sensu* Hänggi et al. [1995]) have a certain ecological interest. These lists are presented in both qualitative and quantitative forms. The Czekanowski-Sørensen similarity index is the base for the qualitative form, taking into account the species that are presented in five or more samples. The Bray-Curtis similarity index is the base for the quantitative form, which is used for the species that are presented in five or more samples and represented by 10+

individuals. Particular qualities of spider distribution across vegetation layers are outside the scope of the present study. Yet, it is accepted that spider species inhabiting different layers could still belong to the same biotopic complex.

To visualize phenology data the method adopted by P. Palmgren [1974, 1976, etc.] is followed, with modifications. We summed up all collected individuals of each species by months, from May to September separately and from October to April together. The axis Y represents the proportion of material collected in each month which is trimmed to the maximum value. Figure 3 shows an example of phenology histogram where roman numbers specify five months from May to September. The column "X+" unites seven months from October to April. Phenology data are provided only for the species represented by three or more occurrences.

We carried out data storage and pre-processing in MS-Excel 2019. Shapefiles for maps are prepared by using the QGIS software [QGIS Development Team, 2020]. All other data transformation stages, calculations, and visualization were performed in the programming environment R 4.1 [R Core Team, 2021]. Within the R environment, the tidyverse package collection [Wickham et al., 2019] was used at all steps. The visualization was done by using ggplot2 [Wickham, 2016] and gridExtra [Auguie, 2017], geospatial data were processed and rendered by using the broom [Robinson, Hayes, 2020], leaflet [Cheng et al., 2021], mapview [Appelhans et al., 2020], raster [Hijmans, 2020], rgdal [Bivand et al., 2021], sf [Pebesma, 2018] and rgeos [Bivand, Rundel, 2019] packages.



Fig. 3. An example of phenology histogram

2.3. Structure of species accounts

Material. All taxa are listed in alphabetic order; nomenclature follows World Spider Catalog [WSC, 2021]. The section ‘Material’ includes administrative district(s), names, and locality numbers (according to Table 3), number and sex of studied specimens, their life cycle stages, type and number of habitats, collecting date, and the name of the collector. The material is grouped by districts and localities. The Institute of Plant and Animal Ecology UB RAS (IPAE) retains all the collected materials unless otherwise stated: e.g., the Perm State University (PSU) or the Zoological Museum of the Moscow State University (ZMMU). Site coordinates and habitat descriptions are given above, in the section 2.1. Each ‘Material’ section starts from a total number of the species’ occurrences and individuals collected.

Habitat preferences. Each species account includes five highest IndVal indexes according to the hierarchical classification of the studied habitats (Table 2), numbered with Roman numerals. Such approach makes it easy to find out a degree of species’ ecological valence beyond exact habitat preferences. Stenotopic species tend to be associated with particular habitats of lowest hierarchical levels (III and IV in Table 2). Eurytopic species tend to be associated with generalized types of

highest hierarchical levels or equally with all habitat types (II or I).

Associated species. Spider species that present in 5+ samples (and represented by 10+ individuals) are co-inhabited by a set of associated species. Therefore, five of those species that have the most similar geographical, habitat and seasonal distribution to the species under discussion are listed as associated ones.

Stratum. Spider species can be associated with one or more vegetation layers, of which seven have been considered in the present catalogue: litter, moss layer, ground surface, herb layer, shrub layer, tree stems and canopy layer (see Figure 4). Spiders can occur in few neighboring layers and hence have combined characteristics in such cases. Stratum preferences of the studied species were assessed based on both literature-derived data, our observations and expert assessment.

Range type characteristics consist of longitudinal and latitudinal components, following Gorodkov [1981]. Exact criteria of the range classification are discussed in the section 2.4.

Maps show a species occurrence across the study area: administrative borders and river system. Dots on maps reflect the locality numbers given in Table 3. Species found in a single locality are not provided with maps.

Phenology histogram, if available, is given next to the map (Fig. 3).

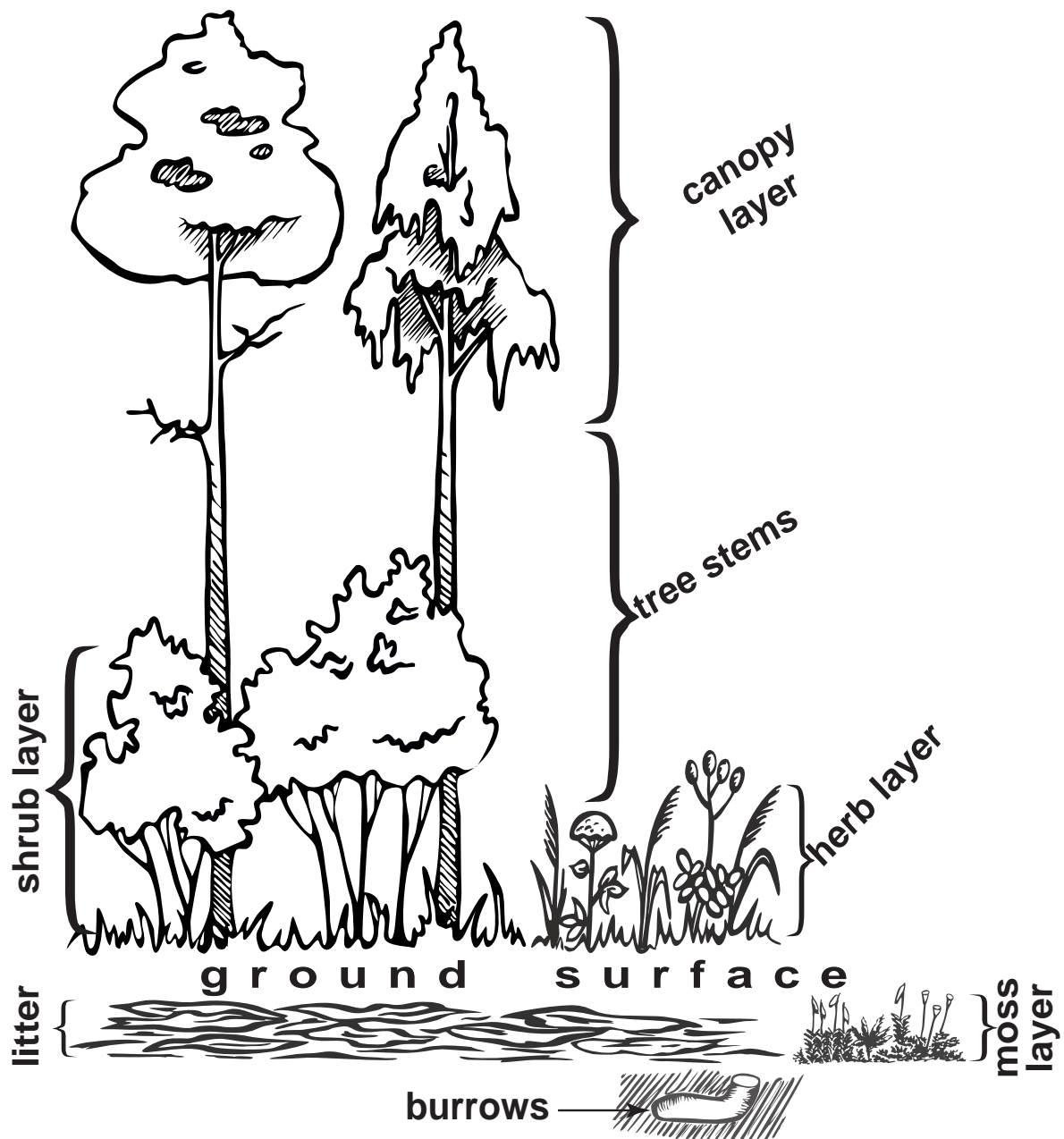


Fig. 4. The scheme of vegetation and other layers (drawn by M.P. Zolotarev)

2.4. Range typology

Range types include both longitudinal (= a geographical sector; e.g. Palaearctic, Euro-Siberian, etc.) and latitudinal (= a natural zone in which species occurs; e.g. boreal, subarid, etc.) components, principally following the system proposed by Gorodkov [1984]. Yet, the range typology follows the classification and terminology used by Esyunin and

Marusik [2011], with some adaptations to the studied spider fauna. Information about species distribution comes from numerous publications, of which the most important are as follows: “Spiders of Europe” [Nentwig et al. 2021], supplements to Mikhailov [2021], and World Spider Catalogue [WSC, 2021]. The text below contains the descriptions of the considered range types, and Figure 5 illustrates them.

Longitudinal components

Group I. Cosmopolitan ranges. A species range lies in more than one of the four zoogeographic provinces: Paleogea, Arctogea, Neogea, Notogea; see Bobrinskiy et al. [1946].

Group II. Holarctic ranges. Species ranges are confined to the Arctogea province.

II.1. Circum-Holarctic ranges. The species range is more or less continuous from the west to the east, i.e. does not have significant meridional discontinuities.

II.2. Subcircum-Holarctic ranges. In the species range, there are significant meridional discontinuities within one of physiographical countries (e.g., the species is absent in Europe, in Eastern Siberia, etc.).

II.3. East Nearctic-West Palaearctic ranges. Species is distributed (or known) from the eastern Nearctic and the western Palaearctic.

II.3'. Greenland-West Siberian ranges. Species is distributed (or known) from the Greenland in the Nearctic to West Siberia in the Palaearctic.

Group III. Palaearctic ranges. Species ranges are restricted to the Palaearctic subprovince.

Subgroup III'. Ev-Palaearctic ranges. Palaearctic species ranges are at least partially located in the Ancient Mediterranean, but not limited to this region.

III.1. Trans-Palaearctic ranges. The species is distributed across all three physiographical regions of the Palaearctic (the Mediterranean with North Africa, Europe and Asia).

III.1.A. Amphi-Palaearctic ranges. Species are represented in the western and

eastern sectors of the Palaearctic, with more or less extensive disjunction in the central sector (e.g., the Caucasus and the Far East).

III. 2. West Central-Palaearctic ranges. A Palaearctic species is absent from the eastern sector of the Palaearctic (i.e., Eastern Siberia and the Far East).

III.3. West-Palaearctic group. The species ranges are entirely located in the western sector of the Palaearctic (i.e., west of Central Asia and Middle Siberia).

Subgroup III". Euro-Siberian ranges. The species range is confined to the European-Siberian Region of the Palaearctic (i.e., north of the Ancient Mediterranean).

III.4. Euro-Siberian ranges. The species is distributed in Europe and Siberia.

III.4.A. Trans-Euro-Siberian ranges. Species is distributed from West Europe to East Siberia and/or Kamchatka.

III.4.B. Euro-Middle Siberian ranges. The European-Siberian species is distributed to Transbaikalia, as a rule, or to Lena River (rarely) in the east.

III.4.C. Euro-West Siberian ranges. In the east, European-Siberian species are restricted by Yenisei River.

III.4.D. East European-West Siberian ranges. Species occurs in the East European Plain and West Siberia.

III.5. North European-Siberian ranges. The range of these Siberian species continues westward along the northern territories of Europe, as far as the Scandinavian Peninsula.

III.6. European ranges. The species range is limited to Europe, with or without the Urals (less often, the species penetrates to Ob' River to the east).

III.6'. East European ranges. The species range is limited to the East European Plain, with or without the Urals.

Subgroup III". Ancient Mediterranean ranges. The species range is confined to the Ancient Mediterranean (arid and subarid territories located north of the northern tropic and surround the Mediterranean Sea, being parts of the Near East and Central Asia)

III.7. European-Central Asian ranges. Species is distributed in Europe and the mountains of Central Asia.

III.7'. East European-Central Asian ranges. Species is distributed in the southern part of East European Plain and the mountains of Central Asia.

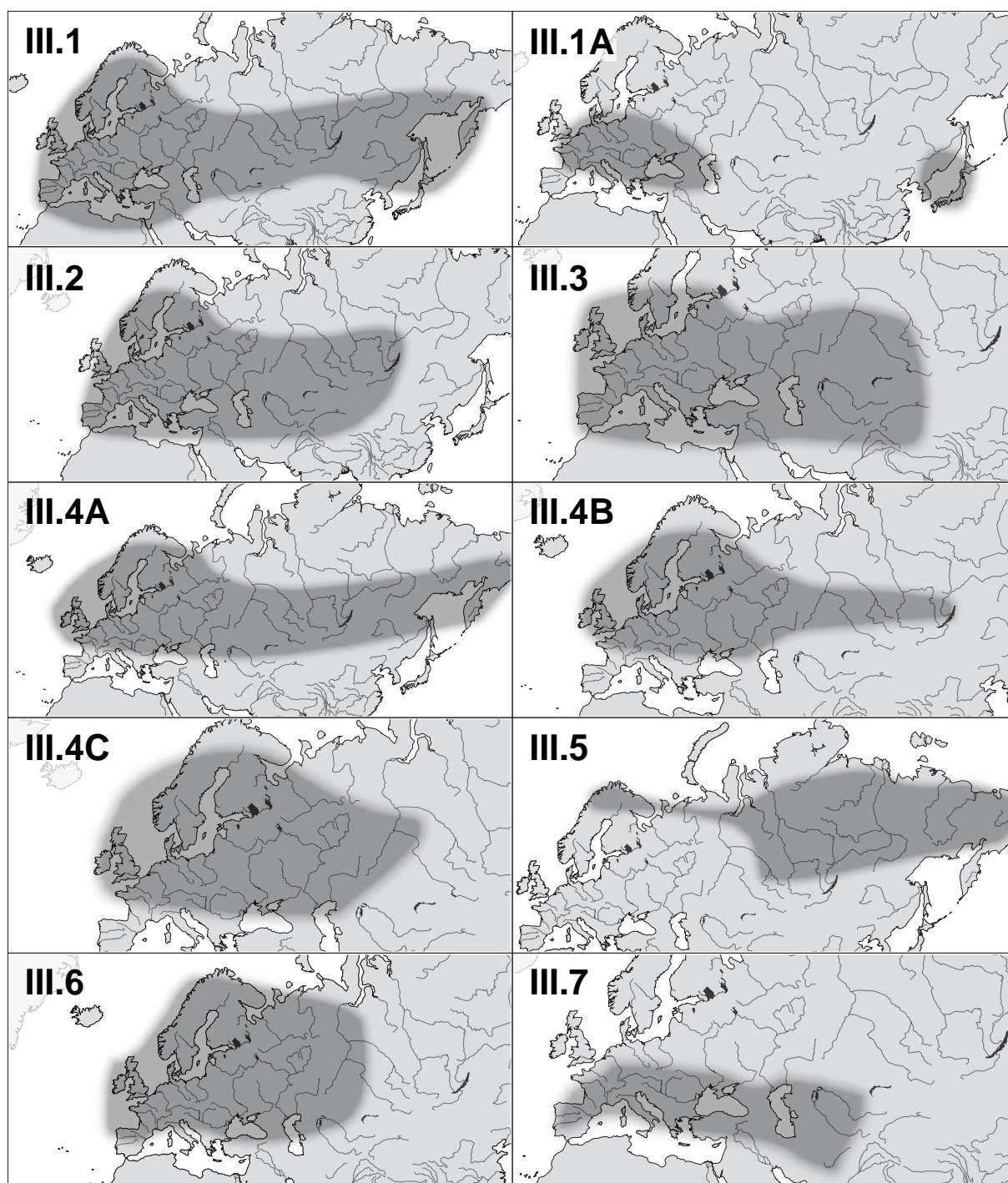


Figure 5. Range types of the listed spiders, as specified in the chapter 2.4.

Latitudinal components

Subboreal – species occurs to the south of the boreal zone, in the mixed and deciduous forests and the forest-steppe.

Temperate – species occur in both the boreal and mixed & deciduous forest zones.

Subarid – species occur in the steppe and semi-desert zones.

Subboreal-subarid – species occur to the south of the forest zones, from the forest-steppe in the north to the semi-desert in the south.

Subboreal-subtropical – a southern variant of the polyzonal distribution; such

species in Udmurtia are known from the southern taiga to the subtropical zone.

Polyzonal – species occur in several natural zones; as a rule, they are known from the tundra in the north to the forest-steppe in the south.

Boreal – species are restricted to the boreal (=northern coniferous forest) zone (=taiga).

Synanthropic – species that occur in the urban environment, near or in human dwellings and habitats created by people around themselves, such as houses, gardens, farms, roadsides and rubbish dumps.

3. Annotated list of spiders

3.1. AGELENIDAE

Agelena labyrinthica (Clerck, 1757)

Material: Alnashy Distr.: Golushurma (47): 1 juv., sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Tegenaria domestica (Clerck, 1757)

Material (Fig. 6): Karakulino Distr.: Byrgynda (49): 1 ♂, 4 ♀, 1 juv., heated dwellings, 5.VI.2017, leg. A.N. Izhboldina; 2 subadult ♂, 2 subadult ♀, 1 juv., agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; 1 subadult ♀, 4 juv., heated dwellings, 27.VI.2017, leg. A.N. Izhboldina; 1 ♂, heated dwellings, 27.VII.2017, leg. A.N. Izhboldina; 1 subadult ♂, 5 subadult ♀, 2 juv., heated dwellings, 27.VIII.2017, leg. A.N. Izhboldina; 1 ♀, 3 subadult ♂, 5 subadult ♀, 3 juv., unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, upland meadow, 3.VII.2014, leg. A.V. Uskova; Yakshur-Bodya Distr.: Starye Zyatci (15): 2 juv., heated dwellings, 2.III.2011, leg. A.N. Sozontov; 1 ♀, heated dwellings, 25.VII.2011, leg. A.N. Sozontov; Yarskiy Distr.: Yar (3): 1 ♂, heated dwellings, 9.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, heated dwellings, 1.V.2012, leg. A.V. Uskova.

Biotopic preferences: III – Indoor spaces (71 %), II – Anthropogenic habitats (53 %), IV – Heated spaces (35 %), IV – Unheated spaces (28 %), I – All the habitats (4 %).

Associated species. Quantitative: *Steatoda grossa* (0.43), *Steatoda bipunctata*

(0.20), *Erigone dentipalpis* (0.18), *Larinioides ixobolus* (0.12), *Parasteatoda tabulata* (0.09). **Qualitative:** *Steatoda grossa* (0.52), *Steatoda castanea* (0.15), *Larinioides ixobolus* (0.15), *Erigone dentipalpis* (0.12), *Neoscona adianta* (0.12).

Stratum: synanthrope (inside buildings, underground utilities).

Range: Cosmopolitan Synanthropic.

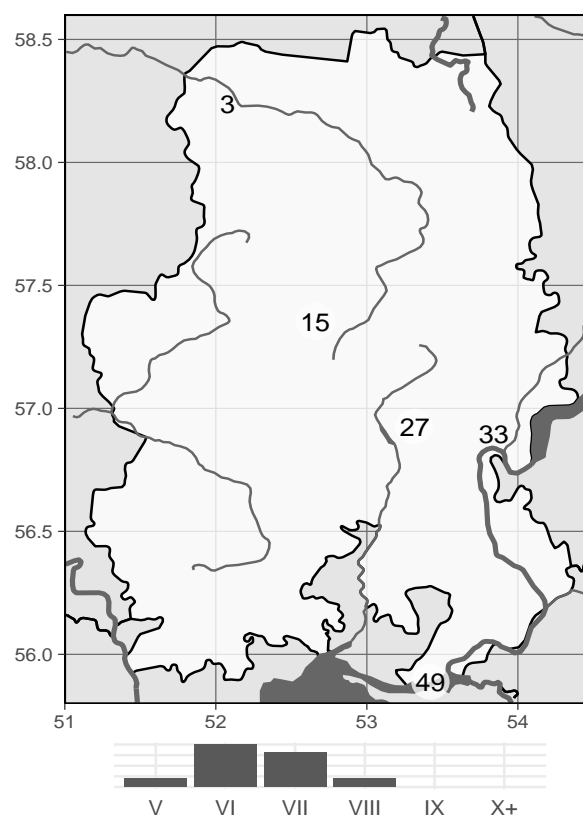


Fig. 6. Distribution map and phenology of *T. domestica*

3.2. ANYPHAENIDAE

Anyphaena accentuata
(Walckenaer, 1802)

Material (Fig. 7): Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 juv., *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg.

A.V. Uskova; Zavyalovo Distr.: Doksha (29): 1 subadult ♂, 3 juv., *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov.

Stratum: canopy.

Range: Palaearctic (West-Palaearctic) Temperate.

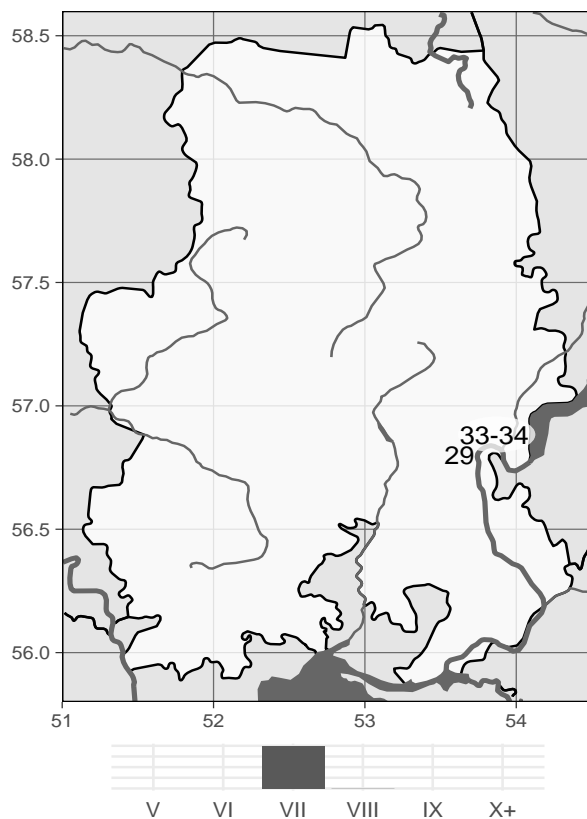


Fig. 7. Distribution map and phenology of *A. accentuata*

3.3. ARANEIDAE

Aculepeira ceropegia (Walckenaer, 1802)

Material (Fig. 8): Alnashy Distr.: Staryi Utchan (45): 1 ♀, Edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 3 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 25.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya

Purga (38): 1 ♂, 3 ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 2 ♀, floodplain steppified meadow, 16.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (32): 1 ♂, 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 1 ♀, upland meadow, 3.VII.2014, leg. A.V. Uskova; 4 ♂, 2 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Noviy (35): 2 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; 1 ♂, steppified meadow, 30.VI.2017, leg. A.N. Sozontov.

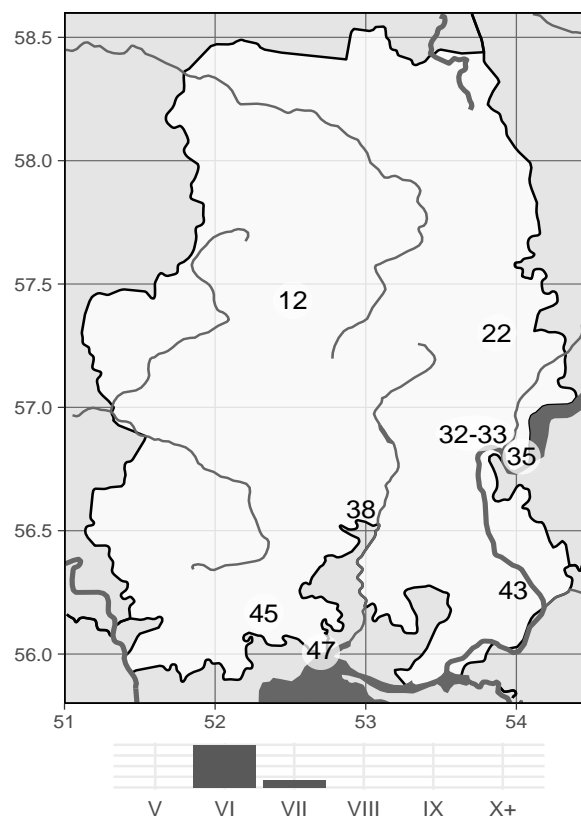


Fig. 8. Distribution map and phenology of *A. ceropegia*

Biotope preferences: IV – Edges of mixed forests (35 %), III – Floodplain meadows (12 %), IV – Floodplain mesophytic meadows (10 %), II – Meadowlands (7 %), II – Ecotones (7 %).

Associated species. Quantitative: *Hypsosinga pygmaea* (0.28), *Misumena vatia* (0.24), *Tetragnatha pinicola* (0.23), *Heliophanus auratus* (0.19), *Xysticus ulmi* (0.18). **Qualitative:** *Misumena vatia* (0.27), *Tetragnatha pinicola* (0.26), *Haplodrassus moderatus* (0.21), *Clubiona neglecta* (0.21), *Attulus floricola* (0.20).

Stratum: herb.

Range: Palearctic (West-Palearctic) Subboreal.

Agalenatea redii (Scopoli, 1763)

Material (Fig. 9): Alnashy Distr.: Golushurma (47): 4 juv., Sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 2 juv., Upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 2 juv., Upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 subadult ♂, 1 subadult ♀, Upland meadow, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., Open river banks, 29.VII.2012, leg. E.S. Shirobokova; 6 juv., Upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 2 juv., Bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; 2 subadult ♂, 2 juv., Upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 5 juv., Upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 2 juv., Edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 3 juv. Sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 3 juv., Sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 1 subadult ♀, 1 juv., Unheated indoor spaces, 14.VI.2012, leg. A.N. Sozontov; 7 juv., Sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya

Sludka(44): 1 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, 5 subadult ♀, 68 juv., Upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Dulesovo (41): 1 juv., faunistic record, 30.VIII.2011, leg. S.V. Dedyukhin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♀, Bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; Noviy (35): 2 subadult ♀, Dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov.

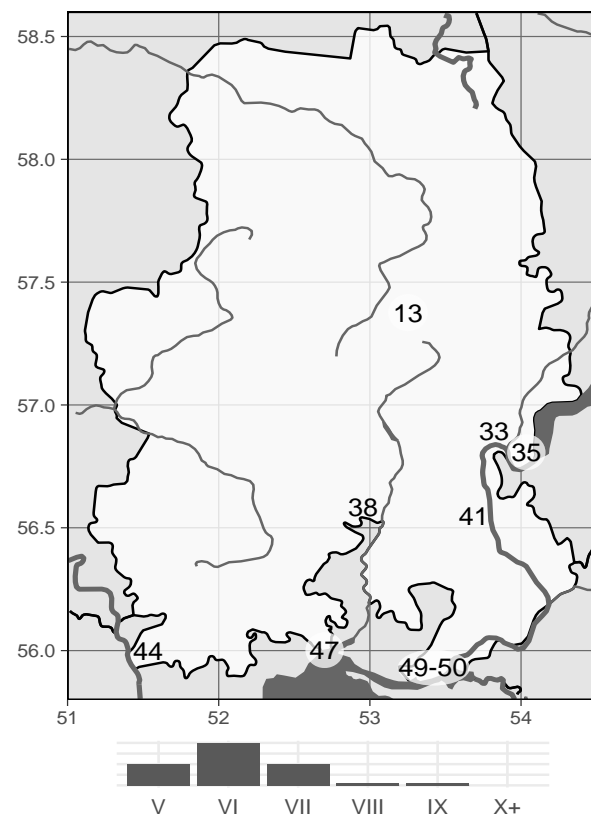


Fig. 9. Distribution map and phenology of *A. redii*

Biotope preferences: IV – Upland meadows (22 %), III – Dry meadows (18 %), II – Meadowlands (14 %), I – All the habitats (8 %), IV – Edges of mixed forest (7 %).

Associated species. Quantitative: *Spiracme striatipes* (0.54), *Araneus quadratus* (0.54), *Ebrechtella tricuspidata* (0.21), *Argiope bruennichi* (0.14), *Misumena vatia* (0.13). **Qualitative:**

Spiracme striatipes (0.35), *Linyphia tenuipalpis* (0.23), *Rhysodromus histrio* (0.21), *Tetragnatha extensa* (0.20), *Araneus quadratus* (0.20).

Stratum: herb, shrub.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

***Araneus alsine* (Walckenaer, 1802)**

Material (Fig. 10): Igra Distr.: Chutyr (13): 1 ♂, bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 subadult ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova.

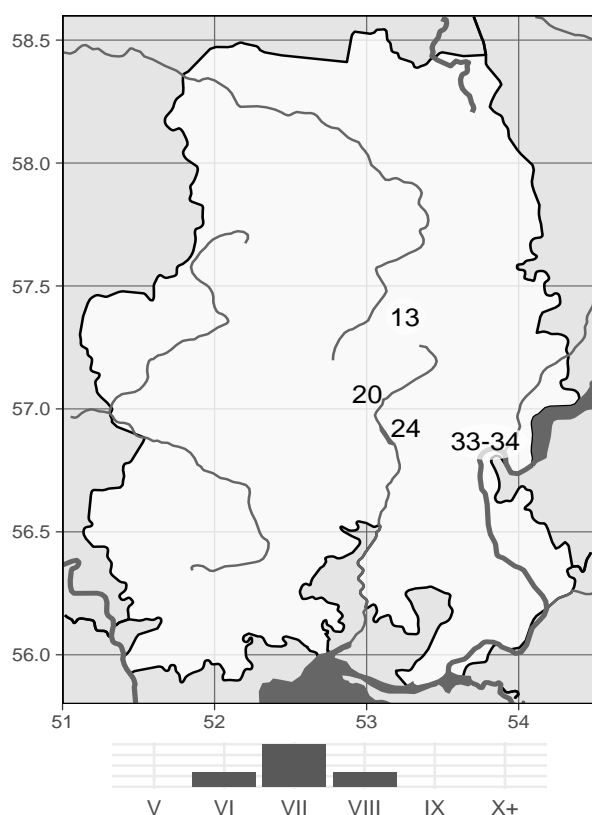


Fig. 10. Distribution map and phenology of *A. alsine*

Associated species. Qualitative: *Hackmania prominula* (0.22), *Metellina menzei* (0.20), *Oedothorax apicatus* (0.20), *Walckenaeria furcillata* (0.20), *Tibioplus diversus* (0.18).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Araneus angulatus* Clerck, 1757**

Material (Fig. 11): Izhevsk (24): 1 ♀, agrocoenosis, 3.VII.2012, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♀, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, riverain deciduous forest, 6.VI.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 13.VI.2012, leg. A.N. Sozontov; 1 subadult ♀, 1 juv., riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (07): 1 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 4 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Krasnogorskoe Distr.: Krasnogorskoe (09): 1 ♀, faunistic record, 10.VIII.2009, leg. K.V. Vasylyev; Mozhga Distr.: Porshur (37): 1 ♀, edge of mixed forest, 21.VII.2008, leg. A.N. Sozontov; Selty Distr.: Selty (14): 1 ♀, unheated indoor spaces, 25.VII.2013, leg. I.V. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 subadult ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, sloping steppe meadow,

18.VIII.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, faunistic record, 1.VII.2017, leg. A.N. Sozontov.

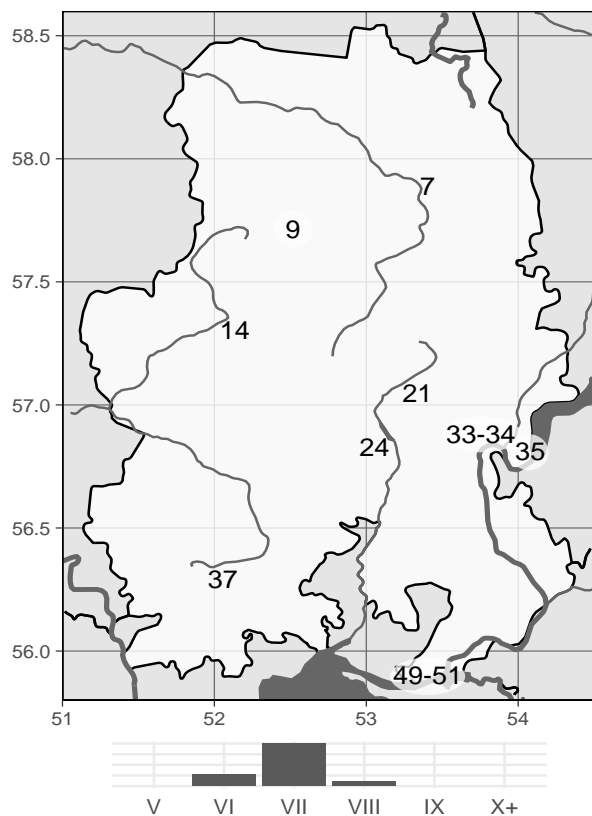


Fig. 11. Distribution map and phenology of *A. angulatus*

Biotopic preferences: III – Agrophytocenoses (29 %), IV – Agrophytocenoses (25 %), II – Anthropogenic habitats (18 %), I – All the habitats (6 %), IV – Floodplain broadleaved forests (3 %).

Associated species. Quantitative: *Tetragnatha dearmata* (0.24), *Pityohyphantes phrygianus* (0.23), *Tetragnatha nigrata* (0.22), *Oedothorax apicatus* (0.21), *Theridion varians* (0.18). **Qualitative:** *Tetragnatha nigrata* (0.30), *Tetragnatha dearmata* (0.27), *Theridion varians* (0.23), *Phylloneta sisypchia* (0.22), *Philodromus cespitum* (0.20).

Stratum: canopy.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Araneus diadematus Clerck, 1757

Material (Fig. 12): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 juv., *Alnus* groves, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, 1 juv., *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 7 ♀, riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 1 subadult ♂, *Pinus* forest, 15.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 juv., faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; Kiyasovo Distr.: Baisary (48): 1 ♀, faunistic record, 29.VI.2015, leg. L.P. Pyatak; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, watershed mixed forest, 24.VIII.2009, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 9.VIII.2010, leg. A.N. Sozontov; 2 ♂, 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 juv., floodplain *Quercus* forest, 23.VIII.2011, leg. A.N. Sozontov; Siva's delta (34): 1 ♀, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; 2 ♂, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; Noviy (35): 1 subadult ♂, edge of mixed forest, 21.VI.2007, leg. A.N. Sozontov; 1 juv., *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 5 ♀, 1 subadult ♂, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (15): 3 ♀, *Abies-Picea* forest, 14.VIII.2008, leg. A.N. Sozontov; 25-km Yakshur-Bodyinskiy trakt (18): 1 subadult ♀, *Tilia* forest, 15.IX.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Doksha (29): 6 ♀,

Tilia forest, 10.VIII.2010, leg. A.N. Sozontov; Golyany Zakamye (31): 3 ♀, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (33 %), IV – *Alnus* groves (18 %), IV – *Tilia* forests (16 %), I – All the habitats (9 %), IV – *Abies-Picea* forests (7 %).

Associated species. Quantitative: *Metellina segmentata* (0.22), *Linyphia triangularis* (0.19), *Anyphaena accentuata* (0.18), *Larinioides patagiatus* (0.15), *Neriere emphana* (0.13). **Qualitative:** *Linyphia triangularis* (0.26), *Metellina segmentata* (0.23), *Larinioides ixobolus* (0.20), *Tmarus piger* (0.20), *Ebrechtella tricuspidata* (0.18).

Stratum: shrub, canopy.

Range: Holarctic (Circum-Holarctic) Temperate.

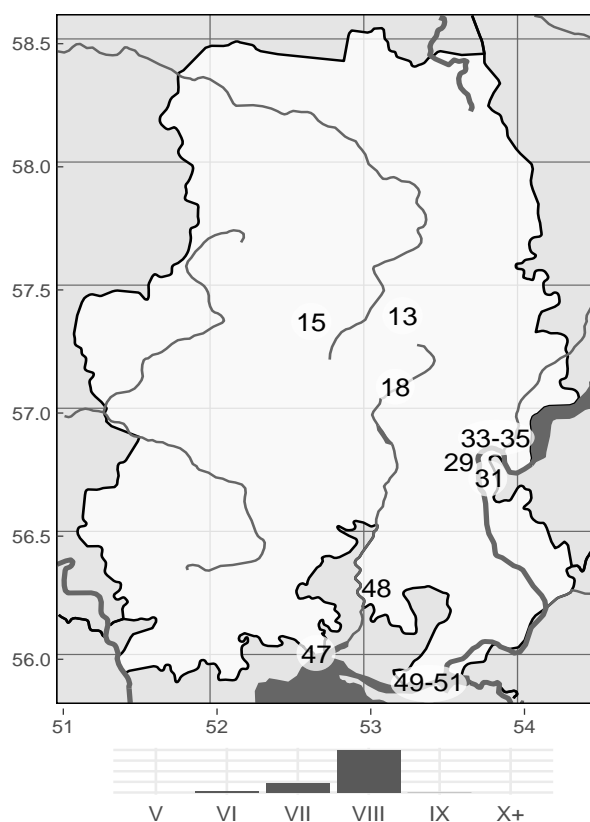


Fig. 12. Distribution map and phenology of *A. diadematus*

Araneus marmoreus Clerck, 1757

Material (Fig. 13): Alnashy Distr.: Staryi Utchan (45): 1 ♂, bog, 8.VII.2009, leg. A.N. Sozontov; Balezino Distr.: Sergino (05): 1 juv., faunistic record, 6.VI.2011, S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 ♀, faunistic record, 20.VI.2011, leg. E.S. Shirobokova; 1 subadult ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 1 juv., upland meadow, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♂, agrocoenosis, 27.VIII.2017, leg. A.N. Izboldina; Shignanda (50): 1 juv., sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 subadult ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 2 ♂, 1 ♀, watershed mixed forest, 13.VII.2008, leg. A.V. Ilyina; 2 ♂, 2 ♀, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 1 juv., open river bank, 25.V.2013, leg. A.N. Sozontov; Mozhga Distr.: Porshur (37): 1 ♂, 1 ♀, banks and shores, 21.VII.2008, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 subadult ♀, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; Bima (42): 1 juv., faunistic record, 4.VI.2011, leg. A.N. Sozontov; 1 juv., *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, floodplain steppified meadow, 16.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 subadult ♀, unheated indoor spaces, 10.VIII.2010, leg. A.N. Sozontov; 1 juv., faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♂, 1 ♀, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, 1 subadult ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♂,

2 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; 1 ♂, faunistic record, 1.VIII.2013, leg. D.B. Trefilov; Noviy (35): 1 subadult ♀, open raised bogs, 19.VI.2009, leg. A.N. Sozontov; 1 ♀, open raised bog, 18.VIII.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♂, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, fagrocoenosis, 28.VIII.2009, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov.

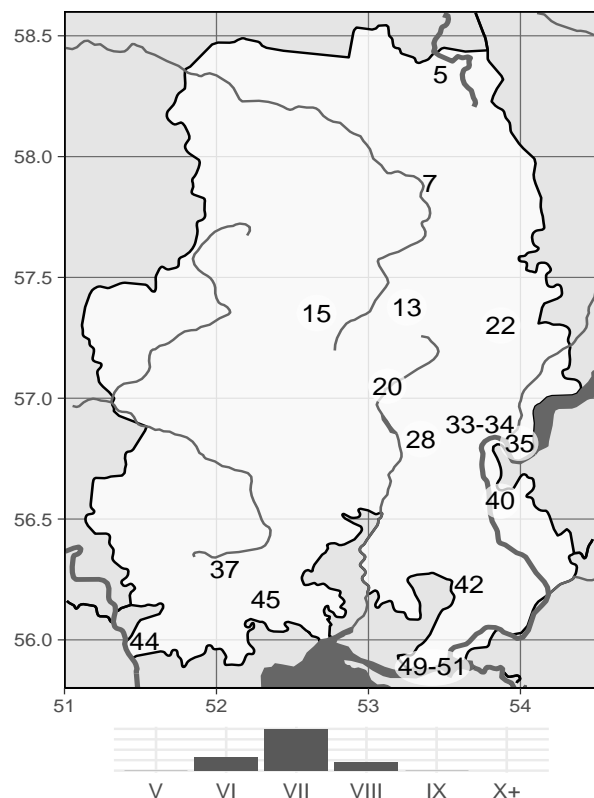


Fig. 13. Distribution map and phenology of *A. marmoreus*

Biotope preferences: III – Bogs (11 %), I – All the habitats (10 %), II – Wetlands (6 %), III – Agrophytocenoses (6 %), II – Anthropogenic habitats (5 %).

Associated species. Quantitative: *Theridion varians* (0.18), *Larinioides patagiatus* (0.18), *Nerienne radiata* (0.16),

Nerienne emphana (0.14), *Tibellus maritimus* (0.12). **Qualitative:** *Nerienne radiata* (0.26), *Theridion varians* (0.23), *Larinioides patagiatus* (0.21), *Tibellus oblongus* (0.20), *Micrommata virescens* (0.18).

Stratum: shrub, canopy.

Range: Holarctic (Circum-Holarctic) Temperate.

Araneus nordmanni (Thorell, 1870)

Material: Izhevsk (24): 1 ♀, Dark coniferous forest with *Tilia*, 29.IX.2012, leg. M.N. Zagumenov.

Stratum: canopy.

Range: Holarctic (Circum-Holarctic) Boreal.

Araneus quadratus Clerck, 1757

Material (Fig. 14): Igra Distr.: Chutyr (13): 1 juv., upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 1 juv., open river bank, 2.VII.2011, leg. E.S. Shirobokova; 2 juv., upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 3 juv., bottomland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 2 juv., upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 juv., *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 subadult ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 juv., open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, 1 juv., riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; Kez Distr.: Chepts (7): 5 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VII.2012, leg. A.A. Ivanova; 20 ♂, 14 ♀, 6 subadult ♂, 10 subadult ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, watershed mixed forest, 17.VII.2014, leg.

A.V. Uskova; 1 juv., bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 3 subadult ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 subadult ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 subadult ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, unheated indoor spaces, 9.VIII.2010, leg. A.N. Sozontov.

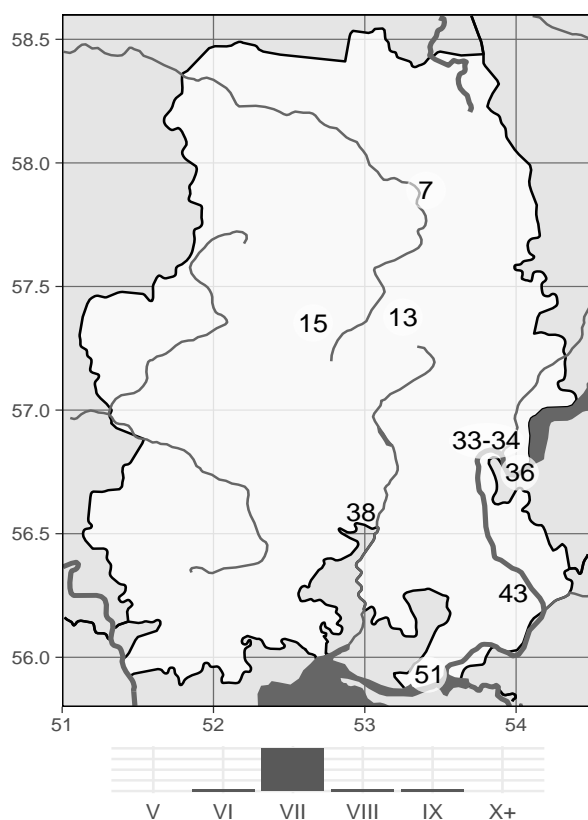


Fig. 14. Distribution map and phenology of *A. quadratus*

Biotopic preferences: IV – *Alnus* groves (16 %), II – Anthropogenic habitats (11 %), IV – Upland meadows (10 %), I – All the habitats (9 %), II – Meadowlands (6 %).

Associated species. Quantitative: *Agalenatea redii* (0.54), *Spiracme striatipes* (0.42), *Argiope bruennichi* (0.19), *Ebrechtella tricuspidata* (0.19), *Misumena vatia* (0.16). **Qualitative:** *Hypsosinga pygmaea* (0.21), *Tetragnatha extensa* (0.20), *Agalenatea redii*

(0.20), *Dolomedes plantarius* (0.20), *Tetragnatha obtusa* (0.19).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Polyzoal.

Araneus saevus (L. Koch, 1872)

Material: Kez Distr.: Kez (6): 1 ♀, heated dwellings, 24.IX.2013, leg. M.N. Zagumenov.

Stratum: canopy.

Range: Holarctic (Circum-Holarctic) Temperate.

Araneus sturmi (Hahn, 1831)

Material: Igra Distr.: Chutyr (13): 1 juv., *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; 1 subadult ♂, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 2 juv., dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♀, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 juv., unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; Zavyalovo Distr.: Doksha (29): 1 ♀, open river bank, 20.VI.2008, leg. A.N. Sozontov.

Associated species. Qualitative: *Arctosa cinerea* (0.20), *Heliophanus dubius* (0.18), *Centromerita bicolor* (0.17), *Metellina mendei* (0.17), *Helophora insignis* (0.16).

Stratum: shrub, canopy.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Araniella proxima (Kulczyński, 1885)

Material (Fig. 15): Alnashy Distr.: Staryi Utchan (45): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Izhevsk (24): 1 ♂, faunistic record, 13.VI.2013, leg. A.N. Sozontov; Karakulino Distr.: Cheganda (52): 1 ♂, sloping steppe meadow,

16.VI.2012, leg. A.N. Sozontov; Kiyasovo Distr.: Baisary (**48**): 1 ♂, faunistic record, 29.VI.2015, leg. L.P. Pyatak; Sarapul Distr.: Nechkino Zakamye (**40**): 1 ♂, floodplain *Quercus* forest, 10.VI.2009, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (**32**): 1 ♂, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (**33**): 1 ♂, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; Siva's delta (**34**): 1 ♀, floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (**35**): 1 ♂, bog, 18.VI.2008, leg. A.N. Sozontov; Volkovskiy (**36**): 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov.

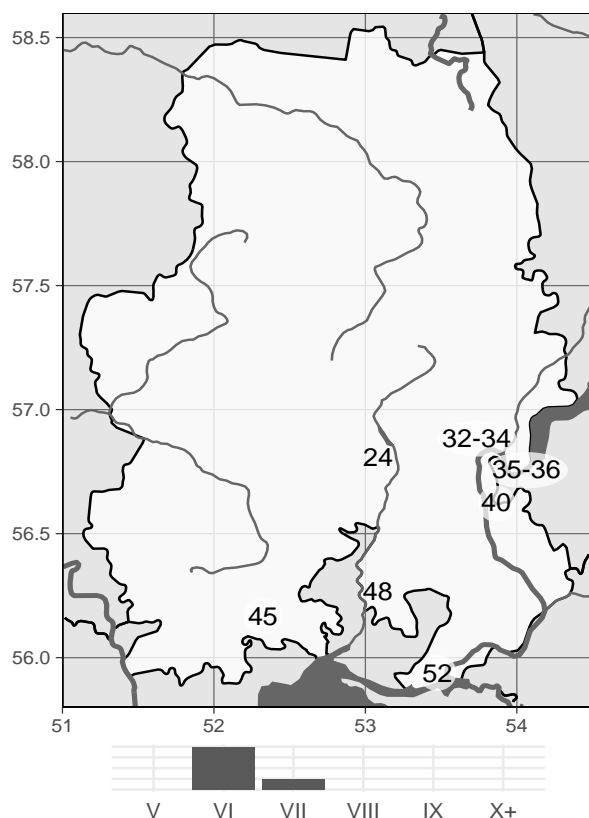


Fig. 15. Distribution map and phenology of *A. proxima*

Biotope preferences: IV – Edges of mixed forests (59 %), III – Bogs (11 %), III – Floodplain deciduous forests (7 %), IV – Floodplain *Quercus* forests (7 %), I – All the habitats (5 %).

Associated species. Quantitative: *Clubiona neglecta* (0.21), *Theridion pictum* (0.20), *Hypsosinga heri* (0.16), *Micrommata virescens* (0.15), *Tetragnatha dearmata* (0.13). **Qualitative:** *Theridion pictum* (0.36), *Micrommata virescens* (0.23), *Philodromus cespitum* (0.22), *Clubiona neglecta* (0.21), *Tetragnatha dearmata* (0.21).

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Temperate.

Argiope bruennichi (Scopoli, 1772)

Material (Fig. 16): Alnashy Distr.: Golushurma (**47**): 1 subadult ♂, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (**49**): 1 ♂, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; 2 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; Malaya Purga Distr.: Malaya Purga (**38**): 7 ♂, 2 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Votkinsk Distr.: Noviy (**35**): 1 subadult ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin.

Associated species. Quantitative: *Neoscona adianta* (0.24), *Clubiona neglecta* (0.22), *Araneus quadratus* (0.19), *Misumena vatia* (0.16), *Agalenatea redii* (0.14). **Qualitative:** *Neoscona adianta* (0.36), *Clubiona neglecta* (0.33), *Attulus saltator* (0.22), *Argyroneta aquatica* (0.20), *Steatoda castanea* (0.20).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal-subtropical.

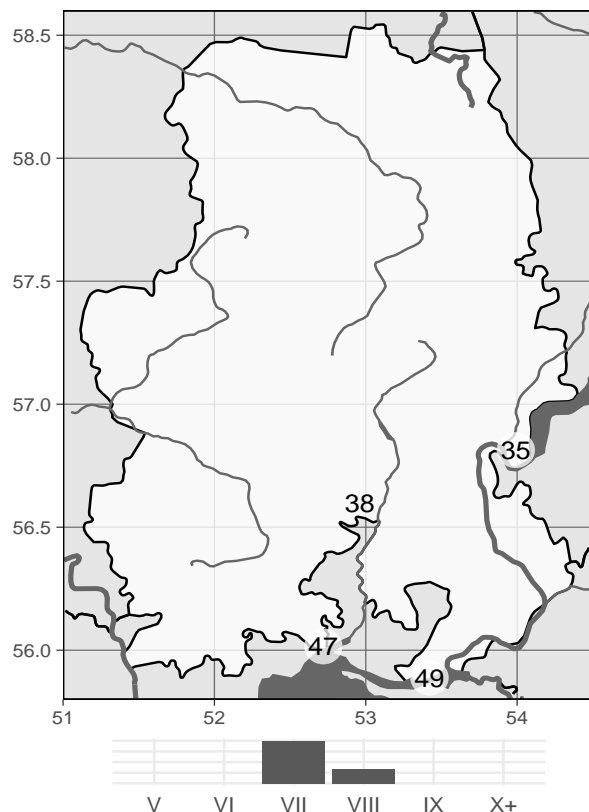


Fig. 16. Distribution map and phenology of *A. bruennichi*

***Cercidia prominens* (Westring, 1851)**

Material (Fig. 17): Igra Distr.: Novye Zyatci (12): 1 juv., open raised bog, 1.VII.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 2 subadult ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 subadult ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, *Pinus* forest, 14.VIII.2009, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, bottomland

meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 juv., watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♂, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 juv., *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 juv., *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, 2 subadult ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 subadult ♂, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova.

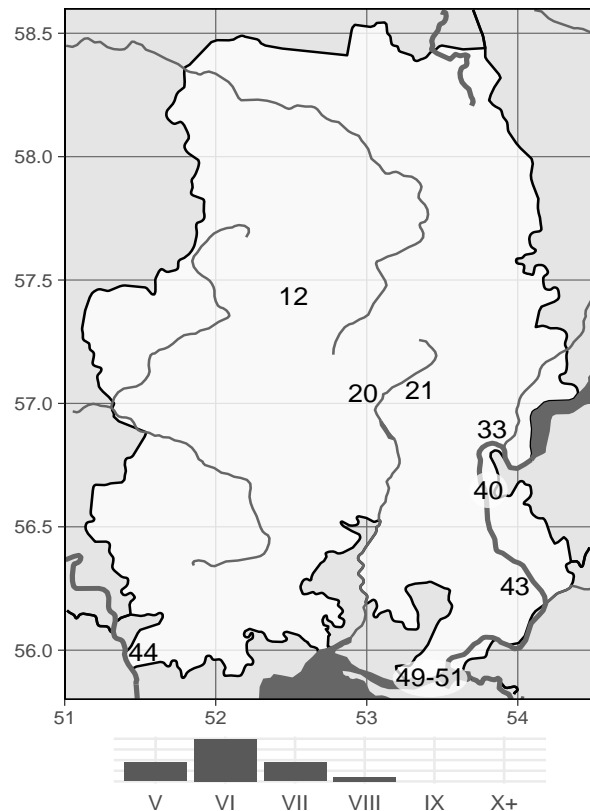


Fig. 17. Distribution map and phenology of *C. prominens*

Biotopic preferences: II – Woodlands (10 %), I – All the habitats (10 %), III – Upland coniferous forests (10 %), IV – *Pinus* forests (9 %), IV – Floodplain broadleaved forests (7 %).

Associated species. Quantitative: *Titanoeca quadriguttata* (0.29), *Centromerus incilium* (0.26), *Xysticus audax* (0.26), *Thanatus sabulosus* (0.23), *Centromerus clarus* (0.20). **Qualitative:** *Centromerus incilium* (0.31), *Minyriolus pusillus* (0.30), *Thanatus sabulosus* (0.29), *Diplocephalus picinus* (0.28), *Ozyptila trux* (0.27).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Temperate.

Cyclosa conica (Pallas, 1772)

Material (Fig. 18): Alnashy Distr.: Staryi Utchan (**45**): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 1 subadult ♀, 1 juv., *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., *Abies-Picea* forest, 29.VII.2012, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♂, 1 subadult ♀, *Abies-Picea* forest, 27.VIII.2012, leg. E.S. Shirobokova; Izhevsk (**24**): 1 subadult ♂, faunistic record, 21.VI.2017, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (**50**): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (**44**): 2 juv., faunistic record, 25.V.2013, leg. A.N. Sozontov; Votkinsk Distr.: Noviy (**35**): 1 ♀, sloping steppe meadow, 18.VI.2008, leg. A.N. Sozontov; 1 ♂, 3 ♀, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; 2 ♂, 2 ♀, *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Yakshur-Bodya Distr.: Starye Zyatci (**15**): 2 subadult ♂, *Abies-Picea* forest, 14.VIII.2008, leg. A.N. Sozontov;

25-km Yakshur-Bodyinskiy trakt (**18**): 1 subadult ♂, *Pinus* forest, 15.IX.2009, leg. A.N. Sozontov; Yarskiy Distr.: Barmashur (**2**): 1 subadult ♂, 3 juv., dark coniferous forest with *Tilia*, 28.VIII.2011, leg. A.N. Sozontov.

Biotopic preferences: IV – Edges of mixed forests (39 %), IV – *Abies-Picea* forests (17 %), III – Upland coniferous forests (7 %), II – Ecotones (6 %), I – All the habitats (5 %).

Associated species. Quantitative: *Tmarus piger* (0.16), *Dolomedes plantarius* (0.11), *Aculepeira ceropegia* (0.10), *Nerienne radiata* (0.10), *Pisaura mirabilis* (0.09). **Qualitative:** *Tmarus piger* (0.26), *Phylloneta sisypchia* (0.14), *Misumena vatia* (0.14), *Nerienne radiata* (0.13), *Theridion varians* (0.13).

Stratum: canopy.

Range: Holarctic (Circum-Holarctic) Temperate.

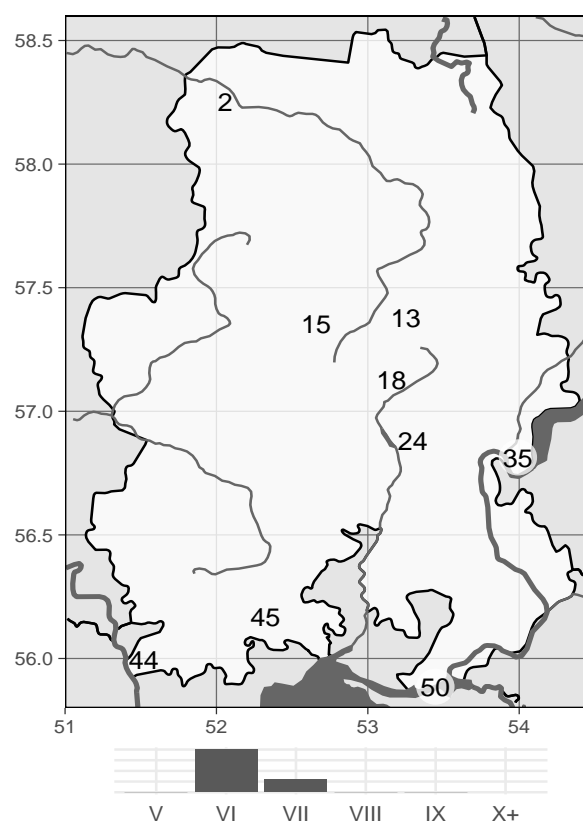


Fig. 18. Distribution map and phenology of *C. conica*

***Cyclosa oculata* (Walckenaer, 1802)**

Material (Fig. 19): Igra Distr.: Novye Zyatci (12): 1 subadult ♂, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♂, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 subadult ♂, faunistic record, 25.V.2013, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

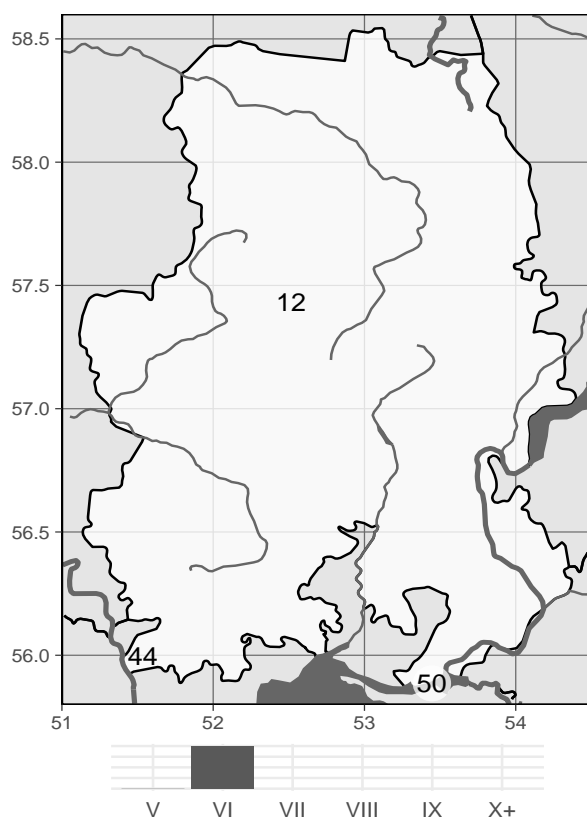


Fig. 19. Distribution map and phenology of *C. oculata*

***Hypsosinga heri* (Hahn, 1831)**

Material (Fig. 20): Votkinsk Distr.: Ledukhi (32): 1 ♀, faunistic record, 23.VI.2013, V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 3 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 2 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; Noviy (35): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovskiy (36): 1 ♀, open raised bog, 18.VI.2009, leg.

A.N. Sozontov; 2 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov.

Associated species. Quantitative: *Larinioides cornutus* (0.22), *Tetragnatha obtusa* (0.18), *Tibellus maritimus* (0.18), *Clubiona neglecta* (0.17), *Araniella proxima* (0.16). **Qualitative:** *Larinioides cornutus* (0.27), *Tetragnatha obtusa* (0.24), *Clubiona neglecta* (0.21), *Araniella proxima* (0.19), *Argiope bruennichi* (0.18).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal-subarid.

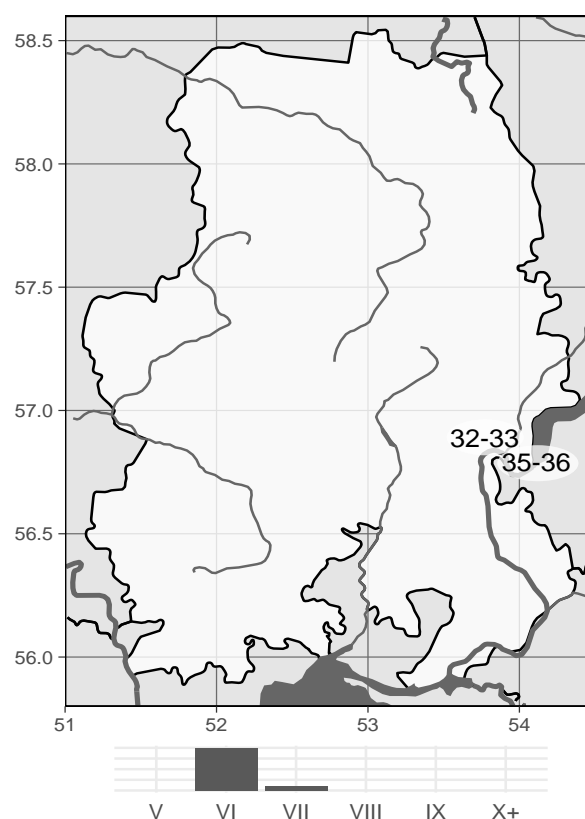


Fig. 20. Distribution map and phenology of *H. heri*

***Hypsosinga pygmaea* (Sundevall, 1831)**

Material (Fig. 21): Igra Distr.: Chutyr (13): 2 ♂, upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 2 juv., upland meadow, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 ♀,

sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; 4 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashova; 1 ♂, 5 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashova; 3 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashova; 1 ♀, 1 juv., bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashova; 6 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashova; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, open raised bog, 10.VI.2010, leg. A.N. Sozontov; 2 ♂, 1 ♀, bog, 12.VI.2010, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

Biotope preferences: IV – Floodplain mesophytic meadows (21 %), III – Floodplain meadows (19 %), II – Meadowlands (17 %), III – Bogs (13 %), I – All the habitats (11 %).

Associated species. Quantitative: *Xysticus ulmi* (0.28), *Aculepeira ceropegia* (0.28), *Heliophanus auratus* (0.26), *Argenna subnigra* (0.25), *Tetragnatha pinicola* (0.23). **Qualitative:** *Heliophanus auratus* (0.37), *Argenna subnigra* (0.30), *Xysticus ulmi* (0.29), *Evarcha arcuata* (0.25), *Dismodicus bifrons* (0.23).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Polyzonal

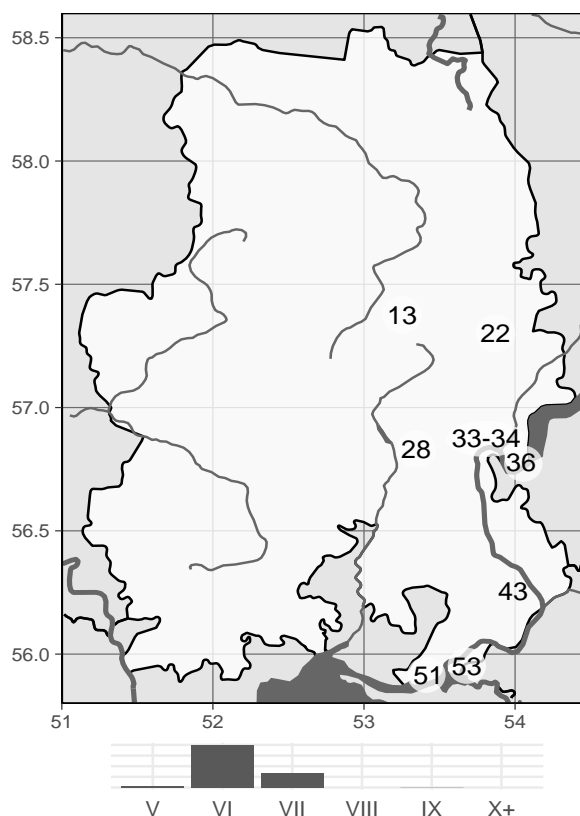


Fig. 21. Distribution map and phenology of *H. pygmaea*

Hypsosinga sanguinea (C. L. Koch, 1844)

Material (Fig. 22): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 2 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov.

Associated species. Qualitative: *Cyclosa oculata* (0.44), *Heliophanus cupreus* (0.40), *Lasaeola tristis* (0.36), *Theridion innocuum* (0.36), *Microlinyphia pusilla* (0.29).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

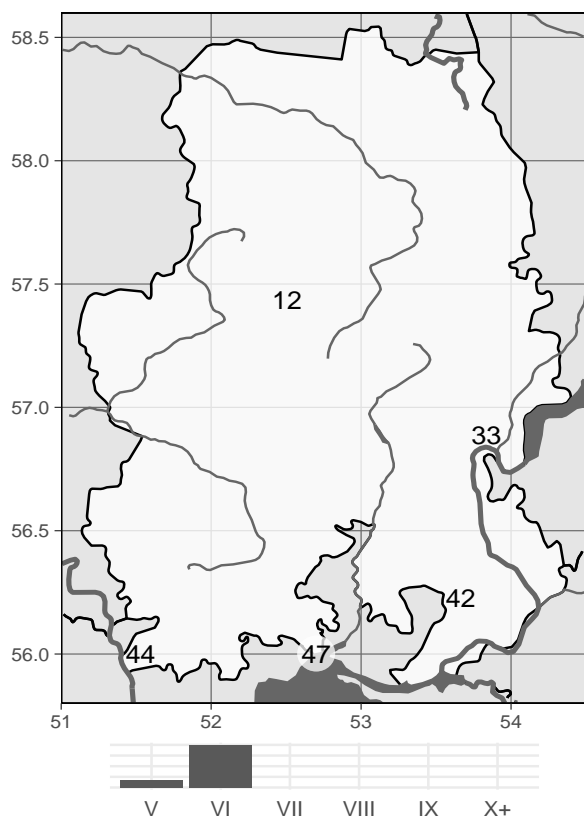


Fig. 22. Distribution map and phenology of *H. sanguinea*

***Larinioides cornutus* (Clerck, 1757)**

Material (Fig. 23): Alnashy: Golushurma (47): 2 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 ♂, 1 ♀, 1 subadult ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 ♂, *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; Kez Distr.: Cheptsy (7): 4 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 2 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; 9 ♂, 3 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 2 ♂, 1 ♀,

bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashova; 1 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashova; 1 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashova; Siva's delta (34): 2 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; 3 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, faunistic record, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 2 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; 1 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♀, bog, 2.VIII.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♀, 3 juv., floodplain steppified meadow, 15.VI.2010, A.N. Sozontov.

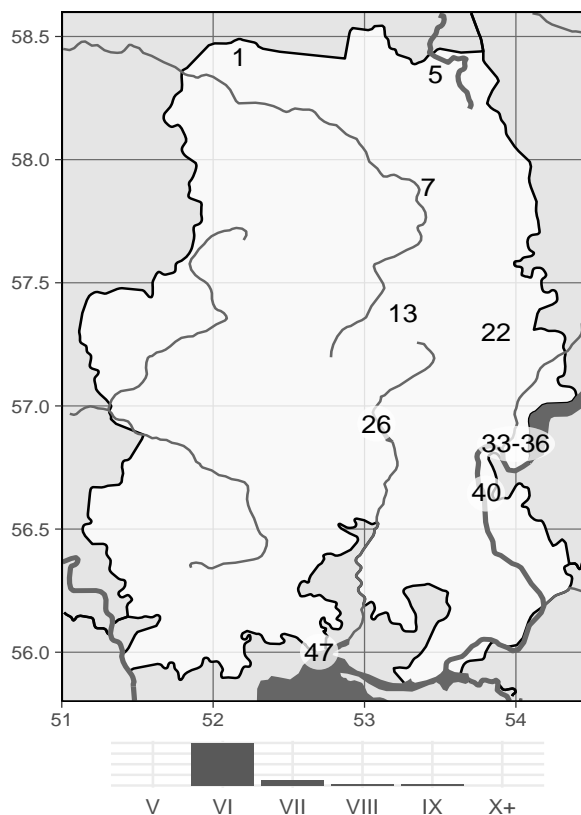


Fig. 23. Distribution map and phenology of *L. cornutus*

Biotopic preferences: IV – *Alnus* groves (19 %), II – Wetlands (17 %), IV – Open banks of stagnant waters (13 %), III – Bogs (10 %), I – All the habitats (8 %).

Associated species. Quantitative: *Hypsosinga heri* (0.22), *Xysticus ulmi* (0.22), *Microlinyphia pusilla* (0.20), *Tibellus maritimus* (0.18), *Singa hamata* (0.18). **Qualitative:** *Tetragnatha extensa* (0.31), *Clubiona reclusa* (0.31), *Theridion pictum* (0.29), *Tibellus maritimus* (0.29), *Xysticus ulmi* (0.28).

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Temperate.

Larinioides ixobolus (Thorell, 1873)

Material (Fig. 24): Karakulino Distr.: Byrgynda (49): 1 ♂, heated dwellings, 5.VI.2017, leg. A.N. Izhboldina; 2 ♂, unheated indoor spaces, 27.VII.2017, leg. A.N. Izhboldina; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; 2 ♂, 1 ♀, unheated indoors spaces, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♂, 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 2 ♀, anthropogenic habitat, 7.VII.2012, leg. A.A. Ivanova; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 10.VI.2007, leg. A.N. Sozontov; 1 ♂, 3 ♀, *Tilia* forest, 9.VIII.2010, leg. A.N. Sozontov; 1 ♂, 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Siva's delta (34): 1 ♂, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♂, open river bank, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, agrocoenosis, 28.VIII.2009, leg. A.N. Sozontov; Zavyalovo Distr.:

Doksha (29): 1 ♂, open river bank, 10.VIII.2010, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov.

Biotopic preferences: II – Anthropogenic habitats (42 %), III – Indoor spaces (40 %), IV – Unheated spaces (27 %), IV – Heated spaces (24 %), III – Upland *Tilia* forests (10 %).

Associated species. Quantitative: *Philodromus poecilus* (0.32), *Parasteatoda tabulata* (0.29), *Larinioides patagiatus* (0.27), *Tetragnatha montana* (0.23), *Steatoda castanea* (0.23). **Qualitative:** *Parasteatoda tabulata* (0.40), *Steatoda bipunctata* (0.34), *Philodromus poecilus* (0.33), *Steatoda castanea* (0.32), *Leviellus stroemi* (0.31).

Stratum: synanthrope (outside buildings).

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

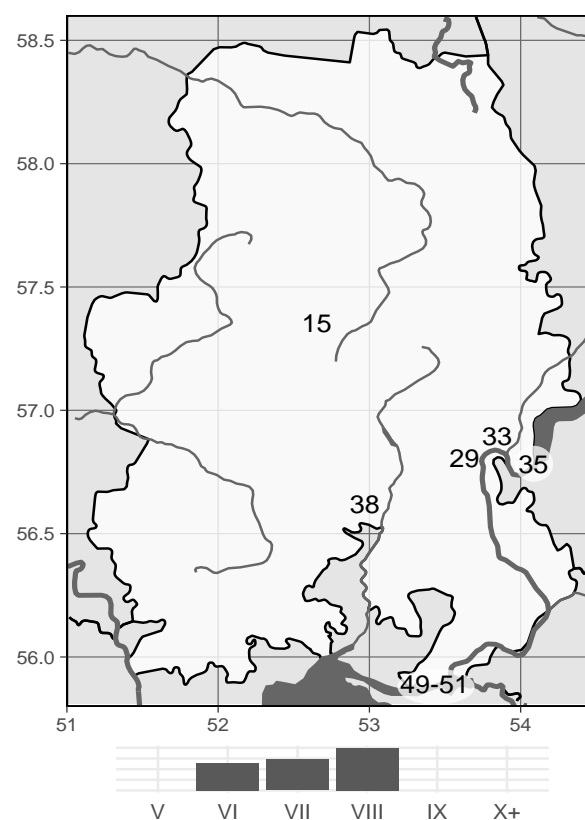


Fig. 24. Distribution map and phenology of *L. ixobolus*

Larinioides patagiatus (Clerck, 1757)

Material (Fig. 25): Alnashy Distr.: Staryi Utchan (45): 1 ♀, open pond shore, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♂, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 subadult ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Varni (11): 1 ♂, 1 ♀, 1 subadult ♀, faunistic record, 18.V.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 juv., upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 1 juv., open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 juv., open river bank, 16.VII.2011, leg. E.S. Shirobokova; 1 subadult ♂, bottomland meadow, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 3 ♀, unheated indoor spaces, 27.VII.2017, leg. A.N. Izboldina; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izboldina; Shignanda (50): 1 ♂, *Pinus* forest, 15.VI.2012, leg. A.N. Sozontov; 2 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, 1 subadult ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, open lake shore, 9.VII.2011, leg. A.N. Sozontov; 1 ♂, faunistic record, 10.VII.2011, leg. A.N. Sozontov; 1 ♂, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♂, 4 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 2 ♂, 1 ♀, agrocoenosis, 15.VII.2008, leg.

A.V. Ilyina; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♂, floodplain steppified meadow, 16.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 3 ♀, *Tilia* forest, 9.VIII.2010, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, watershed mixed forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, 1 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; Siva's delta (34): 2 ♂, 1 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♂, 4 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♂, 2 ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♂, open river bank, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Doksha (29): 1 ♀, faunistic record, 23.VI.2009, leg. A.N. Sozontov; 1 ♂, open river bank, 10.VIII.2010, leg. A.N. Sozontov; 3 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: II – Wetlands (21 %), I – All the habitats (17 %), III – Watersides (11 %), IV – Open

banks of stagnant waters (11 %), II – Anthropogenic habitats (9 %).

Associated species. Quantitative: *Larinioides ixobolus* (0.27), *Philodromus cespitum* (0.24), *Larinioides suspicax* (0.22), *Tetragnatha dearmata* (0.20), *Theridion varians* (0.20). **Qualitative:** *Philodromus cespitum* (0.29), *Larinioides ixobolus* (0.29), *Theridion varians* (0.29), *Singa hamata* (0.27), *Attulus floricola* (0.27).

Stratum: shrub, canopy.

Range: Holarctic (Circum-Holarctic) Polyzonal.

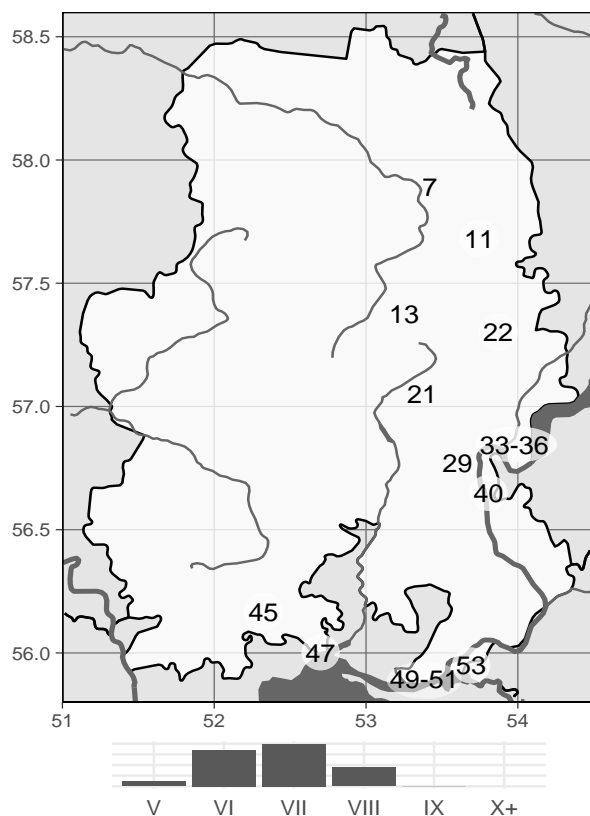


Fig. 25. Distribution map and phenology of *L. patagiatus*

Larinioides sclopetarius (Clerck, 1757)

Material: Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 24.VII.2014, leg. A.N. Sozontov.

Stratum: synanthrope (outside buildings).

Range: Holarctic (Circum-Holarctic) Polyzonal.

Larinioides suspicax (O. Pickard-Cambridge, 1876)

Material (Fig. 26): Alnashy Distr.: Staryi Utchan (45): 2 ♀, open pond shore, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, 3 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 juv., open river bank, 29.V.2011, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 2 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 3 ♂, 3 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 5 ♂, 6 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 3 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 13.VI.2012, leg. A.N. Sozontov; 1 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♀, 1 subadult ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 3 ♂, 4 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov.

Biotope preferences: III – Watersides (43 %), IV – Open banks of stagnant waters (42 %), II – Wetlands (32 %), I – All the habitats (8 %), IV – Open banks of rivers (7 %).

Associated species. Quantitative: *Heliophanus auratus* (0.40), *Clubiona phragmitis* (0.34), *Tetragnatha striata* (0.33), *Tetragnatha montana* (0.28), *Philodromus cespitum* (0.23). **Qualitative:** *Heliophanus auratus* (0.43), *Attulus floricola* (0.38), *Micrommata virescens*

(0.31), *Tetragnatha extensa* (0.29), *Clubiona phragmitis* (0.27).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal-subarid

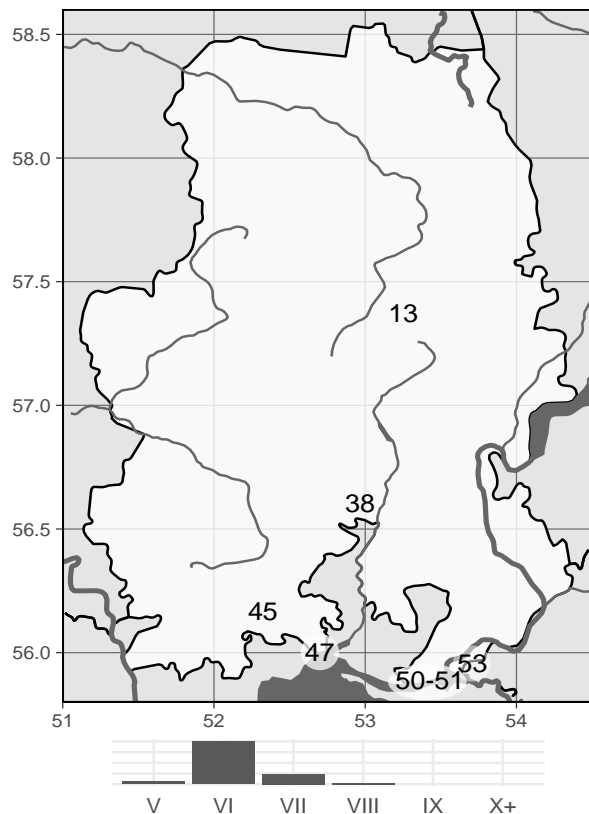


Fig. 26. Distribution map and phenology of *L. suspicax*

Leviellus stroemi (Thorell, 1870)

Material (Fig. 27): Igra Distr.: Chutyr (13): 1 ♀, unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; **Karakulino Distr.:** Byrgynda (49): 1 ♂, unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; 1 ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; 3 ♀, unheated indoor spaces, 27.VII.2017, leg. A.N. Izhboldina; 1 ♂, 11 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; 1 ♀, unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; **Kez Distr.:** Cheptsy (7): 7 ♂, 2 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; **Malaya Purga Distr.:** Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VII.2012, leg. A.A. Ivanova; **Votkinsk**

Distr.: Siva's delta (34): 1 ♀, faunistic record, 30.VI.2017, leg. A.N. Sozontov; Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov.

Biotope preferences: II – Anthropogenic habitats (72 %), III – Agrophytocenoses (44 %), IV – Agrophytocenoses (44 %), III – Indoor spaces (25 %), IV – Unheated spaces (25 %).

Associated species. Quantitative: *Oedothorax apicatus* (0.20), *Parasteatoda tabulata* (0.19), *Larinioides ixobolus* (0.18), *Pardosa amentata* (0.16), *Linyphia triangularis* (0.16). **Qualitative:** *Parasteatoda tabulata* (0.42), *Steatoda bipunctata* (0.34), *Larinioides ixobolus* (0.31), *Neriere montana* (0.31), *Erigone dentipalpis* (0.25).

Stratum: tree stems, synanthrope (outside buildings).

Range: Palaearctic (Trans-Palaearctic) Temperate.

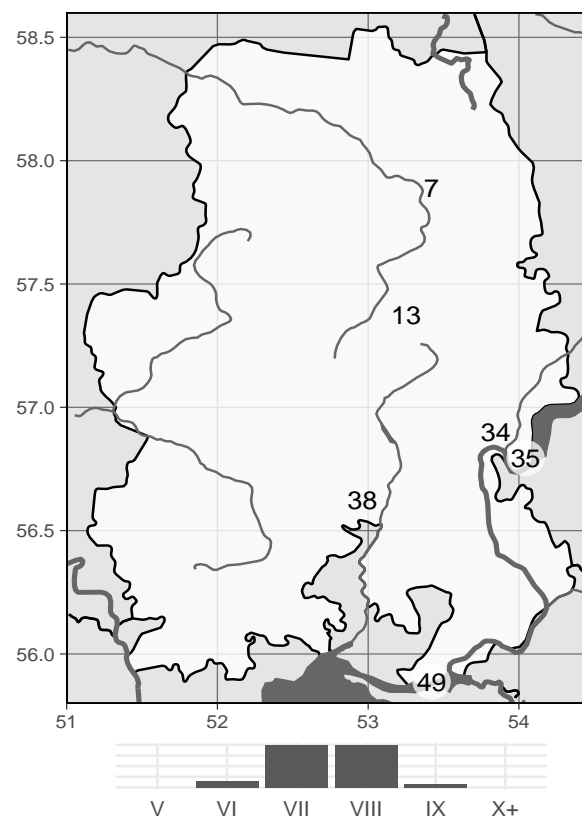


Fig. 27. Distribution map and phenology of *L. stroemi*

***Mangora acalypha* (Walckenaer, 1802)**

Material (Fig. 28): Alnashy Distr.: Golushurma (47): 1 subadult ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 24.V.2013, leg. A.N. Sozontov; 1 ♂, 6 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 6 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, 2 ♀, anthropogenic habitat, 13.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 21.VIII.2011, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., *Abies-Picea* forest, 29.VII.2012, leg. E.S. Shirobokova; 1 juv., bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; 1 juv., upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♂, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 4 subadult ♂, 2 juv., edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; 1 juv., unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; Ust'-Belsk (51): 1 subadult ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 9.VII.2011, leg. S.V. Dedyukhin; Cheganda (52): 1 ♀, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 3 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 4 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 5 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 8 ♂, 1 ♀, 1 subadult ♂, 1 subadult ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; 3 ♂, 1 subadult ♀, open river bank, 25.V.2013,

leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 subadult ♀, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 4 ♂, 3 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 2 ♂, 2 ♀, 2 subadult ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 juv., bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvasheva; 3 ♂, 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvasheva; 2 ♂, 2 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvasheva; 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvasheva; 1 ♀, 1 juv., bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvasheva; Siva's delta (34): 2 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 ♀, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; 2 ♀, open raised bog, 19.VI.2009, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Volkovskiy (36): 3 ♀, 1 juv., open raised bog, 18.VI.2009, leg. A.N. Sozontov; 2 subadult ♀, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; 2 juv., sloping steppe meadow, 18.VI.2009, leg. A.N. Sozontov; 2 ♀, bog, 12.VI.2010, leg. A.N. Sozontov; 3 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 2 subadult ♂, 3 juv., *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 2 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 subadult ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

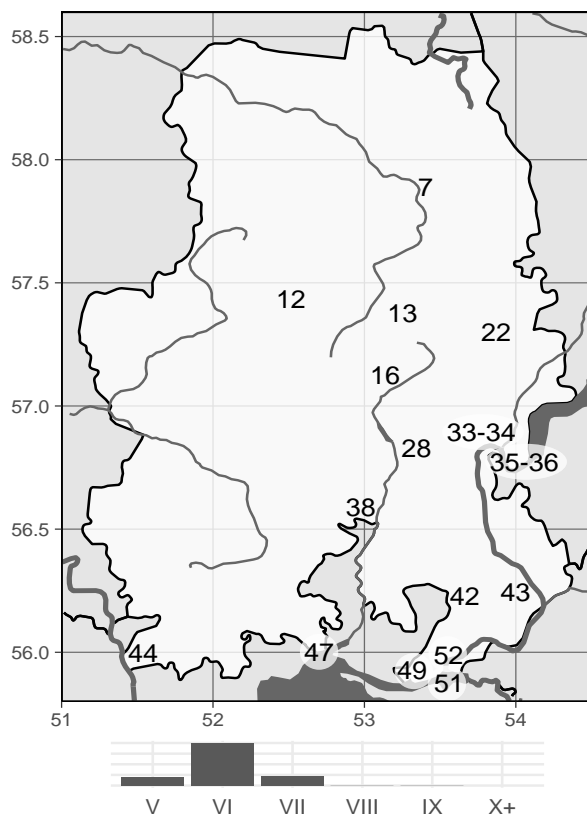


Fig. 28. Distribution map and phenology of *M. acalypha*

Biotopic preferences: I – All the habitats (20 %), IV – Edges of mixed forests (15 %), III – Bogs (13 %), II – Anthropogenic habitats (12 %), II – Meadowlands (6 %).

Associated species. Quantitative: *Tetragnatha pinicola* (0.28), *Dictyna arundinacea* (0.25), *Tibellus oblongus* (0.22), *Xysticus ulmi* (0.22), *Tmarus piger* (0.22). **Qualitative:** *Dictyna arundinacea* (0.39), *Tetragnatha pinicola* (0.34), *Tibellus oblongus* (0.34), *Phylloneta impressa* (0.31), *Evarcha arcuata* (0.31).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Neoscona adianta (Walckenaer, 1802)

Material (Fig. 29): Alnashy Distr.: Golushurma (47): 1 juv., sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda

(49): 1 ♀, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 3 ♂, 1 ♀, 1 subadult ♂, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; Cheganda (52): 1 ♂, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 2 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova

Associated species. Quantitative: *Cheiracanthium pennyi* (0.25), *Argiope bruennichi* (0.24), *Erigone dentipalpis* (0.17), *Tibellus maritimus* (0.17), *Cyclosa oculata* (0.14). **Qualitative:** *Argiope bruennichi* (0.36), *Erigone dentipalpis* (0.33), *Cyclosa oculata* (0.22), *Entelecara acuminata* (0.22), *Pisaura mirabilis* (0.21).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

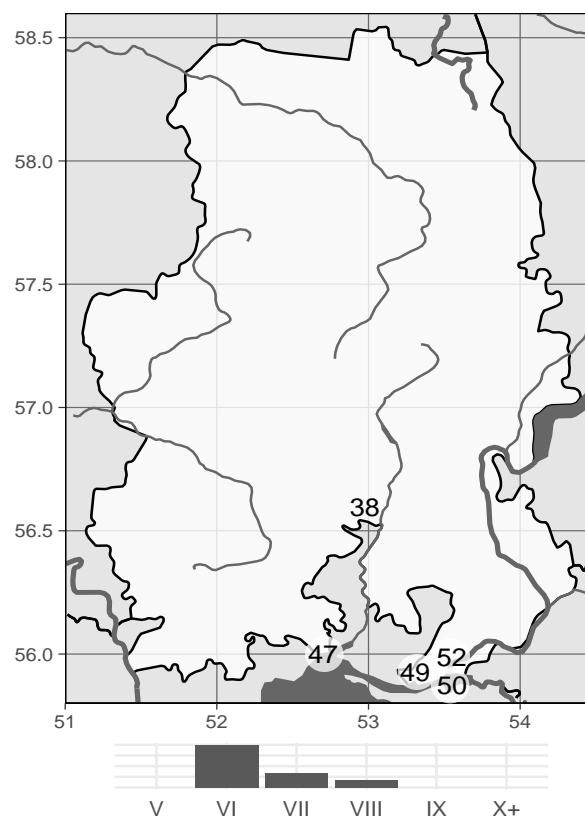


Fig. 29. Distribution map and phenology of *N. adianta*

***Nuctenea silvicultrix* (C. L. Koch, 1835)**

Material: Igra Distr.: Chutyr (13): 1 juv., edge of mixed forest, 16.VII.2011, E.S. Shirobokova.

Stratum: tree stems.

Range: Euro-Siberian (Trans-EuroSiberian) Boreal.

***Singa hamata* (Clerck, 1757)**

Material (Fig. 30): Alnashy Distr.: Pirogovo (46): 2 ♀, upland meadow, 10.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♂, 1 subadult ♂, 1 subadult ♀, 2 juv., sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 2 ♂, 2 subadult ♂, 1 subadult ♀, 1 juv., open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 7 ♂, 2 ♀, 2 subadult ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, faunistic record, 17.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, floodplain steppified meadow, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 subadult ♀, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 subadult ♂, bottomland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 juv., bottomland meadow, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., bottomland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 subadult ♀, *Alnus* groves, 12.VIII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♀, 1

subadult ♂, 1 subadult ♀, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; 2 ♂, 2 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; 1 subadult ♀, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♀, 1 juv., sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, 2 juv., open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, 3 subadult ♂, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 2 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kez: Cheptsa (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 1 ♂, faunistic record, 25.V.2013, leg. A.N. Sozontov; 1 ♂, 1 subadult ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Nechkino Zakamye (40): 1 ♂, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 9.VIII.2009, leg. A.N. Sozontov; Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, bottomland meadow, 19.VI.2017, K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, floodplain steppified meadow, 16.VI.2012, leg. A.N. Sozontov; 2 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, *Tilia* forest, 31.VIII.2009, leg. A.N. Sozontov; 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♂, 5 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashva; 2 ♂,

upland meadow, 8.VI.2017, leg. A.N. Sozontov; 2 ♂, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, 2 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 2 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 2 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; 3 ♂, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♂, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, 1 juv., floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; 1 subadult ♂, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; 4 ♂, 1 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 7 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 2 ♀, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, 1 ♀, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; 1 juv., *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; 2 ♂, steppified meadow, 30.VI.2017, leg. A.N. Sozontov; Volkovskiy (36): 1 juv., sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 5 ♂, 2 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov; Doksha (29): 1 ♂, faunistic record, 11.IX.2010, leg. A.N. Sozontov; Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (23 %), III – Agrophytocenoses (16 %), II – Wetlands (16 %), III – Watersides (15 %), IV – Open banks of rivers (12 %).

Associated species. Quantitative: *Ebrechtella tricuspidata* (0.28), *Xysticus*

ulmi (0.26), *Evarcha arcuata* (0.24), *Dictyna uncinata* (0.24), *Tetragnatha extensa* (0.24). **Qualitative:** *Dictyna arundinacea* (0.37), *Evarcha arcuata* (0.35), *Xysticus ulmi* (0.35), *Tibellus oblongus* (0.33), *Ebrechtella tricuspidata* (0.32).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Temperate.

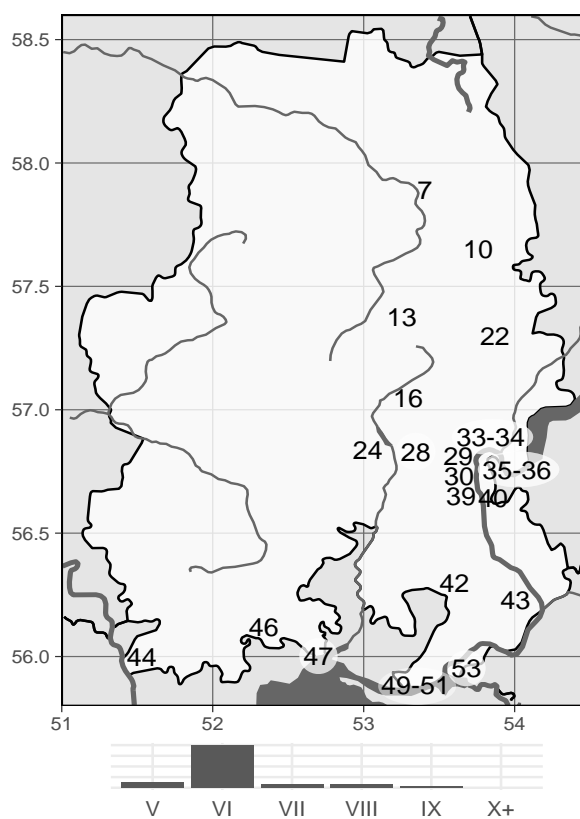


Fig. 30. Distribution map and phenology of *S. hamata*

Singa nitidula C. L. Koch, 1844

Material (Fig. 31): Alnashy Distr.: Golushurma (47): 1 ♂, 1 subadult ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 4 ♀, floodplain steppified meadow, 1.VIII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 subadult ♂, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♀, 1 subadult ♂, open river

bank, 6.VII.2011, leg. A.N. Sozontov; 2 ♀, 2 subadult ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 1 ♂, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; Noviy (35): 1 ♀, Pinus forest, 17.VI.2009, leg. A.N. Sozontov; 1 ♀, open river bank, 10.VI.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov; Doksha (29): 1 ♀, faunistic record, 23.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 11.IX.2010, leg. A.N. Sozontov; Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

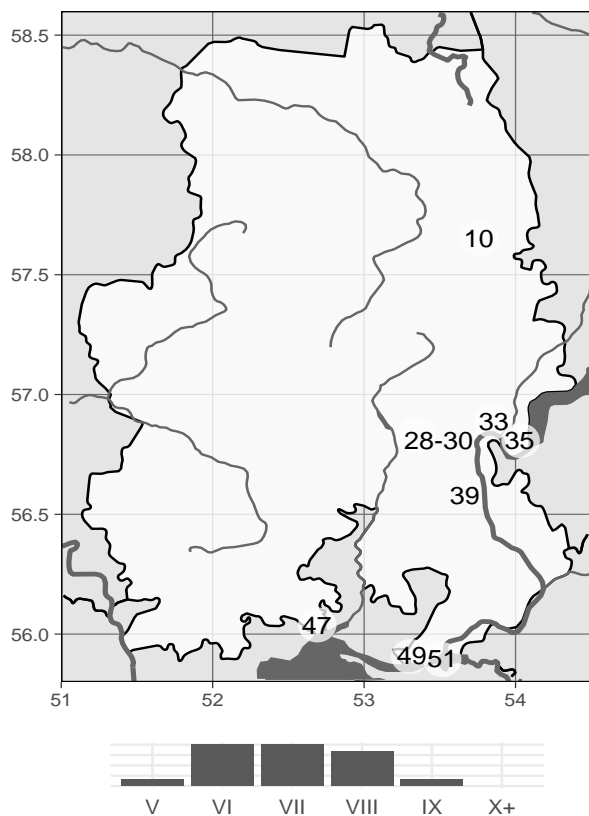


Fig. 31. Distribution map and phenology of *S. nitidula*

Biotope preferences: III – Watersides (21 %), II – Wetlands (19 %), IV – Open banks of rivers (12 %), IV – Open banks of stagnant waters (6 %), I – All the habitats (5 %)

Associated species. Quantitative: *Silometopus elegans* (0.29), *Attulus floricola* (0.22), *Arctosa leopardus* (0.15), *Dolomedes plantarius* (0.14), *Larinioides suspicax* (0.14). **Qualitative:** *Silometopus elegans* (0.33), *Porrhomma pygmaeum* (0.22), *Attulus floricola* (0.21), *Tetragnatha extensa* (0.19), *Larinioides suspicax* (0.18).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

3.4. CHEIRACANTHIIDAE

Cheiracanthium erraticum (Walckenaer, 1802)

Material (Fig. 32): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 25.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Novye Zyatci (12): 1 ♂, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, bog, 6.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 3 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 2 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, faunistic

record, 7.VII.2011, leg. A.N. Sozontov; 4 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; **Cheganda (52)**: 13 ♀, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; **Malyashi (53)**: 1 ♂, open lake shore, 11.VI.2011, leg. A.N. Sozontov; **Kez Distr.**: **Cheptsa (7)**: 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; **Kizner Distr.**: **Krymskaya Sludka (44)**: 1 ♀, 1 subadult ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; **Malaya Purga Distr.**: **Malaya Purga (38)**: 1 ♀, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; **Sarapul Distr.**: **Bima (42)**: 1 ♀, floodplain steppified meadow, 3.VI.2011, leg. A.N. Sozontov; **Sokolovka (43)**: 1 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; **Sharkan Distr.**: **Sharkan (22)**: 3 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; **Votkinsk Distr.**: **Ledukhi (32)**: 2 ♂, 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) **(33)**: 1 ♂, 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♀, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 3 ♀, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♂, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov; 1 ♂, 1 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; 4 ♂, 3 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 1 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; **Siva's delta (34)**: 1 ♂, 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V.

Uskova; 1 ♀, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 3 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; **Noviy (35)**: 2 ♀, edge of mixed forest, 21.VI.2007, leg. A.N. Sozontov; 1 ♀, agrocoenosis, 17.VI.2009, leg. A.N. Sozontov; 1 ♀, edge of mixed forest, 20.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; **Volkovskiy (36)**: 1 ♂, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; **Yakshur-Bodya Distr.**: **Starye Zyatci (15)**: 1 ♀, floodplain steppified meadow, 28.VII.2012, leg. A.N. Sozontov; **Zavyalovo Distr.**: **Pozym Kabanikha (28)**: 1 ♀, 1 subadult ♀, 1 juv., floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

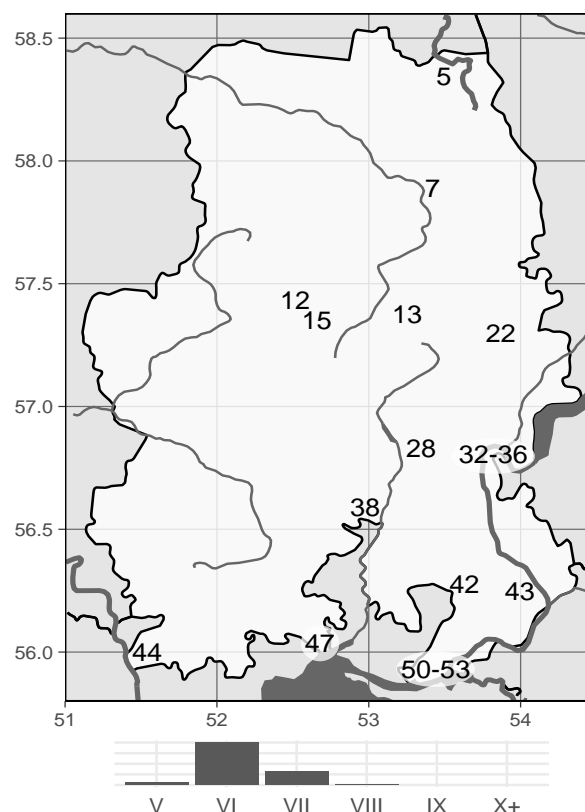


Fig. 32. Distribution map and phenology of *Ch. erraticum*

Biotope preferences: II – Anthropogenic habitats (19 %), I – All the habitats (15 %), IV – Edges of mixed forests (9 %), III – Bogs (9 %), II – Ecotones (6 %).

Associated species. Quantitative: *Tibellus oblongus* (0.32), *Xysticus ulmi* (0.29), *Micrommata virescens* (0.27), *Philodromus cespitum* (0.25), *Tetragnatha pinicola* (0.24). **Qualitative:** *Phylloneta impressa* (0.39), *Philodromus cespitum* (0.38), *Tetragnatha pinicola* (0.35), *Tibellus oblongus* (0.35), *Evarcha arcuata* (0.33).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Cheiracanthium oncognathum Thorell,
1871

Material: Igra Distr.: Novye Zyatci (12): 1 ♂, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov.

Stratum: herb.

Range: Euro-Siberian (European) Subboreal.

Cheiracanthium pennyi O. Pickard-
Cambridge, 1873

Material (Fig. 33): Karakulino Distr.: Shignanda (50): 2 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, sloping steppe meadow, 9.VII.2011, leg. S.V. Dedyukhin; **Kez Distr.**: Cheptsy (7): 1 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева.

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

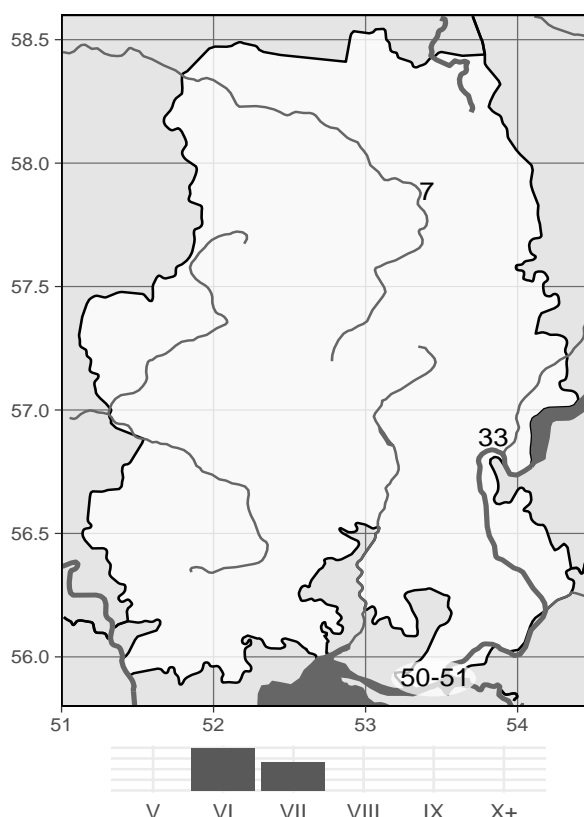


Fig. 33. Distribution map and phenology of *Ch. pennyi*

3.5. CLUBIONIDAE

Clubiona caerulescens L. Koch, 1867

Material (Fig. 34): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, faunistic record, 27.VIII.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♀, edge of mixed forest, 6.V.2012, leg. M.N. Zagumenov; 1 ♀, edge of coniferous forest, 29.VII.2012, leg. M.N. Zagumenov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest,

29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♂, faunistic record, 25.VII.2012, leg. A.N. Sozontov.

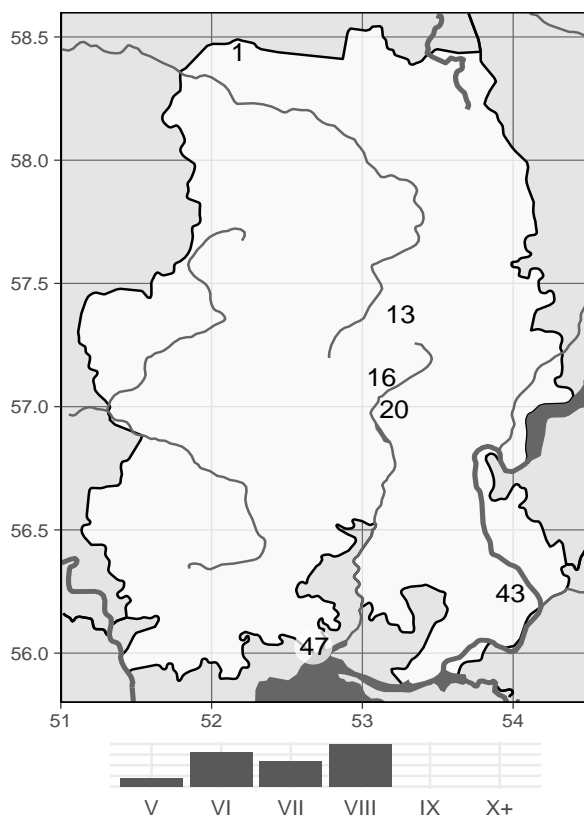


Fig. 34. Distribution map and phenology of *C. caerulea*

Biotope preferences: IV – Edges of mixed forests (21 %), II – Ecotones (12 %), III – Forest edges (6 %), I – All the habitats (5 %), III – Upland mixed forests (5 %).

Associated species. Quantitative: *Tapinopa longidens* (0.26), *Floronia bucculenta* (0.22), *Neon reticulatus* (0.21), *Bolyphantes alticeps* (0.15), *Entelecara acuminata* (0.12). **Qualitative:** *Tapinopa longidens* (0.27), *Floronia bucculenta* (0.24), *Centromerus sylvaticus* (0.23), *Neon reticulatus* (0.22), *Bolyphantes alticeps* (0.19).

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Clubiona diversa O. Pickard-Cambridge, 1862

Material (Fig. 35): Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov.

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

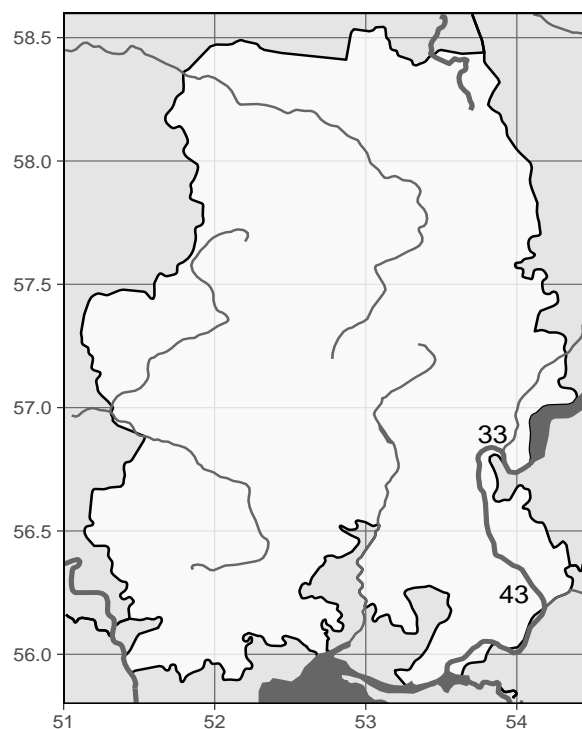


Fig. 35. Distribution map and phenology of *C. diversa*

Clubiona frisia Wunderlich & Schuett, 1995

Material: Karakulino Distr.: Ust'-Belsk (51): 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov

Stratum: ground, herb.

Range: Euro-Siberian (European) Subboreal.

***Clubiona germanica* Thorell, 1871**

Material (Fig. 36): Karakulino Distr.: Ust'-Belsk (51): 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova

Stratum: herb, shrub.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

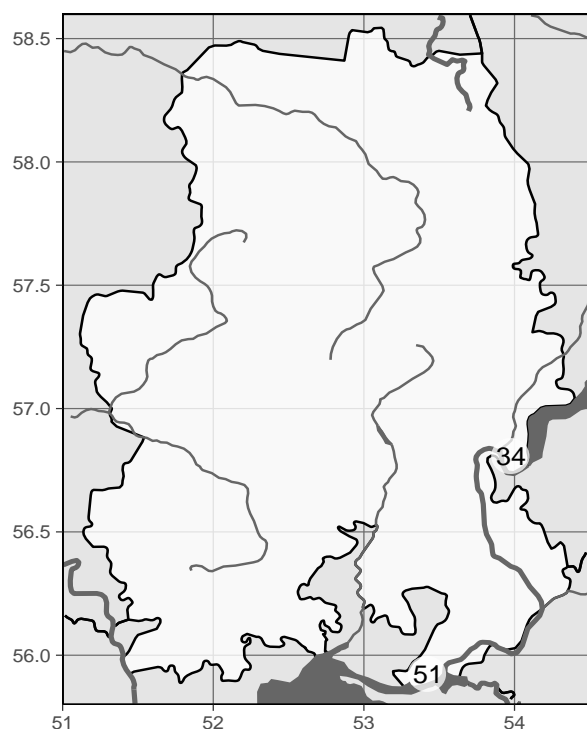


Fig. 36. Distribution map of *C. germanica*

***Clubiona lutescens* Westring, 1851**

Material (Fig. 37): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.VII.2013, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, floodplain herb meadow, 7.VI.2017, leg.

A.N. Sozontov; Siva's delta (34): 1 ♀, watershed mixed forest, 21.VIII.2009, leg. A.N. Sozontov; Noviy (35): 2 ♀, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 2 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Ceratinella brevipes* (0.18), *Clubiona phragmitis* (0.18), *Centromerus arcanus* (0.16), *Arctosa leopardus* (0.15), *Haplodrassus moderatus* (0.14). **Qualitative:** *Clubiona phragmitis* (0.33), *Arctosa leopardus* (0.24), *Bathypantes nigrinus* (0.21), *Agyneta olivacea* (0.18), *Diplocephalus picinus* (0.18).

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

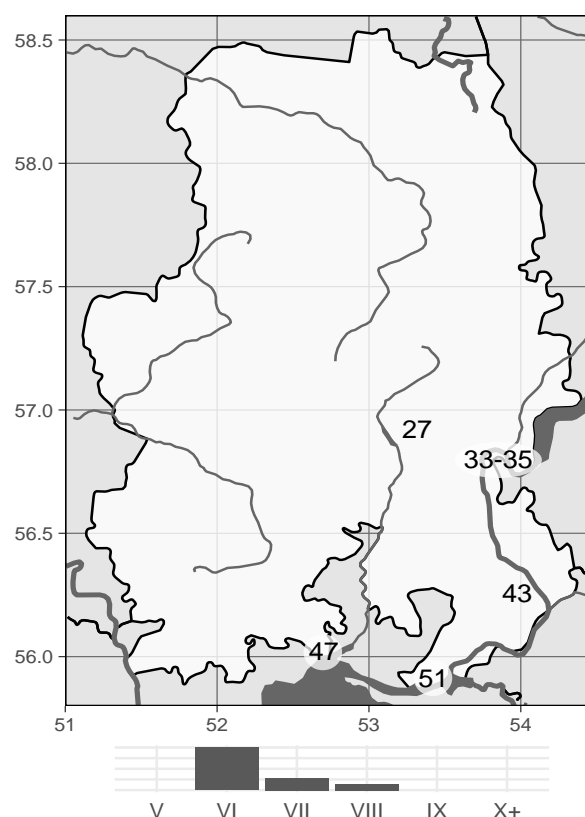


Fig. 37. Distribution map and phenology of *C. lutescens*

Clubiona neglecta O. Pickard-
Cambridge, 1862

Material (Fig. 38): Alnashy Distr.: Golushurma (47): 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, agrocoenosis, 28.V.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 3.IX.2011, leg. E.S. Shirobokova; Kiyasovo Distr.: Baisary (48): 1 ♂, faunistic record, 29.VI.2015, leg. L.P. Pyatak; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Ledukhi (32): 1 ♂, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 1 ♂, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 1 ♂, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♀, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; Noviy (35): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Zavyalovo Distr.: Volozhka (26): 1 ♂, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov.

Biotope preferences: II – Ecotones (7 %), III – Agrophytocenoses (6 %), IV – Edges of broadleaved forests (6 %), I – All the habitats (5 %), III – Forest edges (5 %).

Associated species. Quantitative: *Argiope bruennichi* (0.22), *Argyroneta aquatica* (0.22), *Araniella proxima* (0.21), *Hypsosinga heri* (0.17), *Tetragnatha montana* (0.13). **Qualitative:** *Argiope bruennichi* (0.33), *Misumena vatia* (0.25), *Argyroneta aquatica* (0.22),

Araniella proxima (0.21), *Hypsosinga heri* (0.21).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

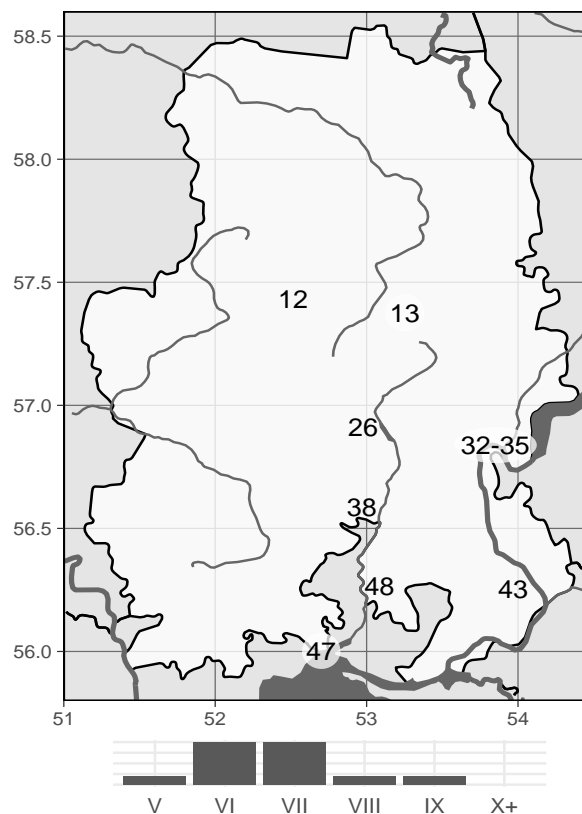


Fig. 38. Distribution map and phenology of *C. neglecta*

Clubiona pallidula (Clerck, 1757)

Material (Fig. 39): Karakulino Distr.: Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, sloping steppe meadow, 9.VII.2011, leg. S.V. Dedyukhin; 2 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♀, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, steppified meadow, 30.VI.2017, leg. A.N. Sozontov.

Associated species. Quantitative: *Hypomma bituberculatum* (0.29), *Haplodrassus cognatus* (0.21), *Panamomops menzei* (0.16), *Attulus saltator* (0.13), *Cheiracanthium pennyi* (0.13). **Qualitative:** *Hypomma bituberculatum* (0.36), *Haplodrassus cognatus* (0.27), *Panamomops menzei* (0.24), *Xysticus luctator* (0.21), *Parasteatoda simulans* (0.20).

Stratum: canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

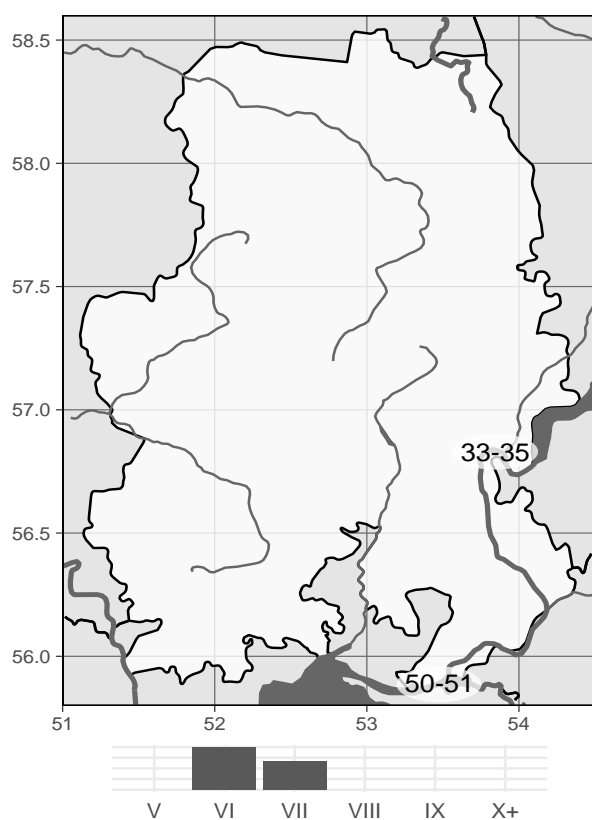


Fig. 39. Distribution map and phenology of *C. pallidula*

Clubiona phragmitis C. L. Koch, 1843

Material (Fig. 40): Karakulino Distr.: Shignanda (50): 8 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva'

biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin.

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

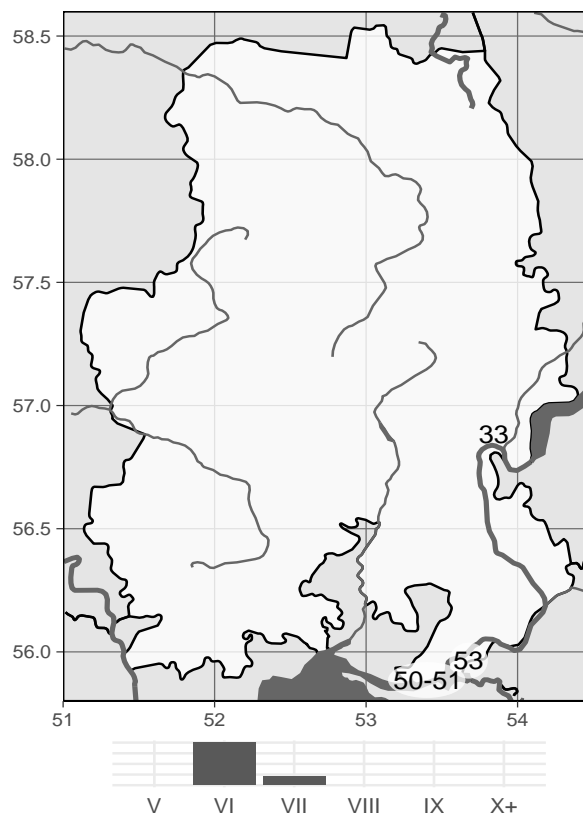


Fig. 40. Distribution map and phenology of *C. phragmitis*

Clubiona pseudoneglecta Wunderlich, 1994

Material: Votkinsk Distr.: Noviy (35): 1 ♀, open river bank, 10.VI.2010, leg. A.N. Sozontov; 1 ♀, open river bank, 10.VII.2012, leg. S.V. Dedyukhin.

Stratum: herb.

Range: Palaearctic (West-Palaearctic) Subboreal.

Clubiona reclusa O. Pickard-Cambridge, 1863

Material (Fig. 41): Karakulino Distr.: Ust'-Belsk (51): 1 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation

(Perevozhnoe) (33): 1 ♂, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 2 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; Siva's delta (34): 1 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 2 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; 1 subadult ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; Zavyalovo Distr.: Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

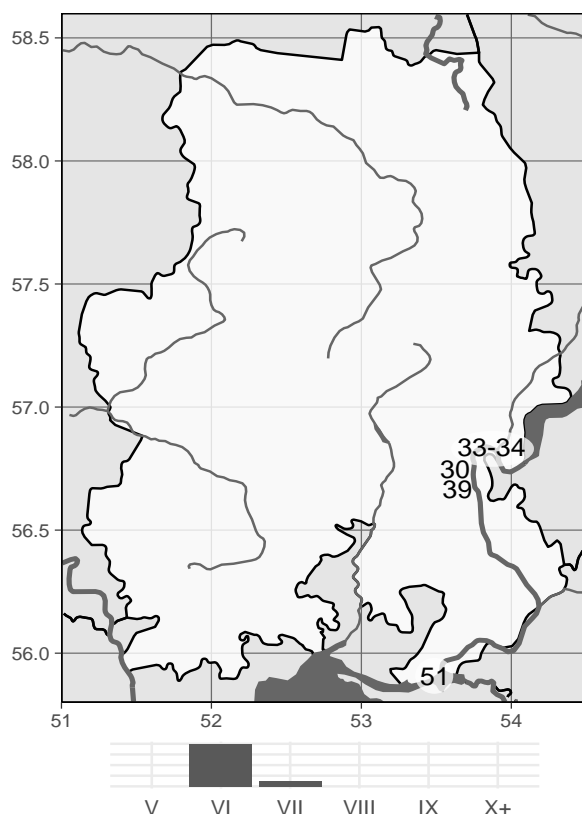


Fig. 41. Distribution map and phenology of *C. reclusa*

Associated species. Quantitative: *Silometopus elegans* (0.29), *Acantholycosa lignaria* (0.18), *Tetragnatha obtusa* (0.18), *Clubiona stagnatilis* (0.17), *Larinioides cornutus* (0.16). **Qualitative:** *Silometopus elegans* (0.36), *Larinioides cornutus* (0.31), *Nerienne montana* (0.27), *Tetragnatha dearmata* (0.26), *Acantholycosa lignaria* (0.25).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Clubiona similis L. Koch, 1867

Material: Karakulino Distr.: Ust'-Belsk (51): 1 ♂, open river bank, 3.VIII.2012, leg. A.N. Sozontov.

Stratum: herb.

Range: Euro-Siberian (European) Temperate.

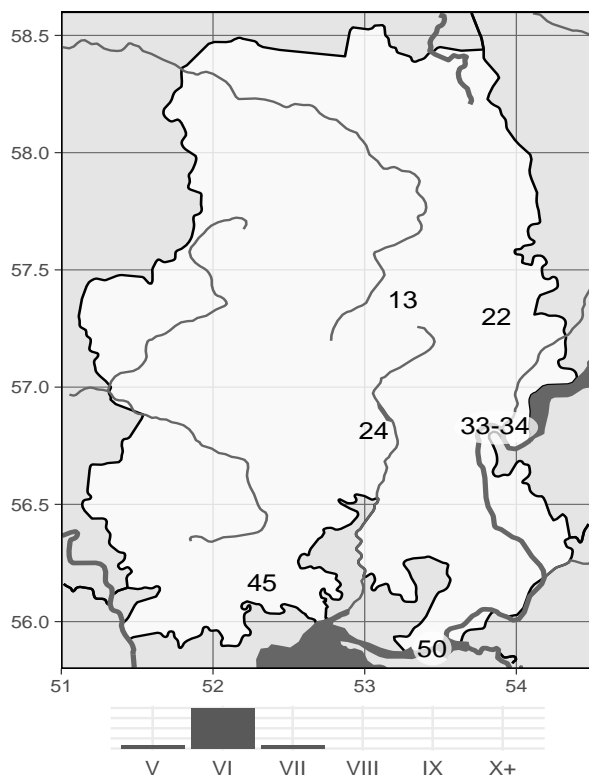
Clubiona stagnatilis Kulczyński, 1897

Material (Fig. 42): Alnashy Distr.: Staryi Utchan (45): 1 ♀, open pond shore, 8.VII.2009, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 25.VI.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 2 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 6 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; Siva's delta (34): 1 ♂, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov.

Associated species. Quantitative: *Attulus floricola* (0.22), *Tibellus maritimus* (0.21), *Clubiona reclusa* (0.17), *Tetragnatha shoshone* (0.16), *Clubiona phragmitis* (0.15). **Qualitative:** *Tibellus maritimus* (0.31), *Attulus floricola* (0.27), *Clubiona reclusa* (0.25), *Pachygnatha clercki* (0.24), *Larinioides suspicax* (0.23).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Fig. 42. Distribution map of *C. stagnatilis****Clubiona subsultans* Thorell, 1875**

Material (Fig. 43): Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; Yakshur-Bodya Distr.: 16-km Yakshur Bodyinskiy trakt (19): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 6.X.2009, leg. A.N. Sozontov.

Stratum: tree stems.

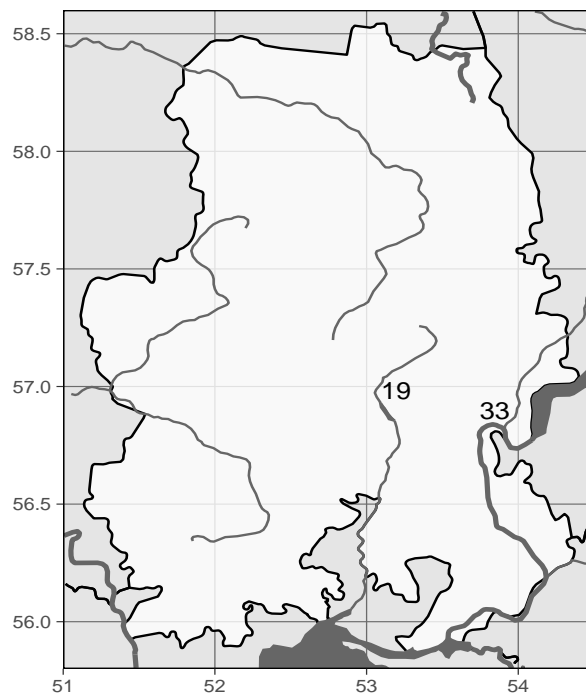
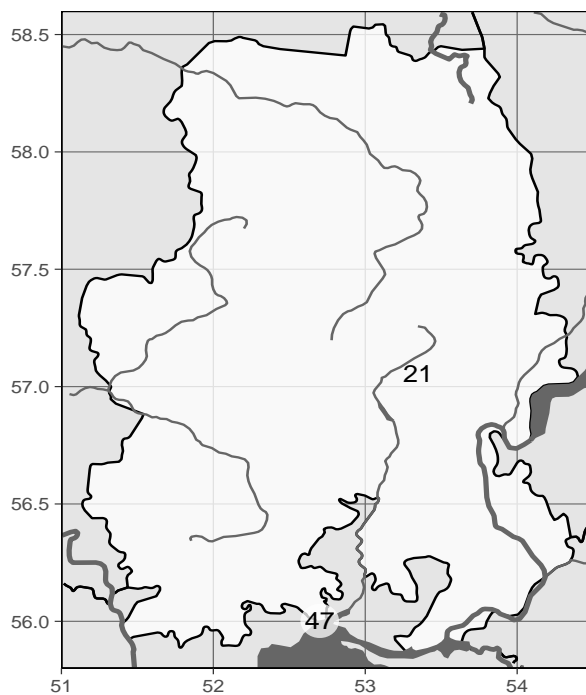
Range: Palaearctic (Trans-Palaearctic) Temperate

3.6. DICTYNIDAE***Argenna patula* (Simon, 1874)**

Material (Fig. 44): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Fig. 43. Distribution map of *C. subsultans*Fig. 44. Distribution map of *A. patula****Argenna subnigra* (O. Pickard-Cambridge, 1861)**

Material (Fig. 45): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, bottomland

meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♂, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

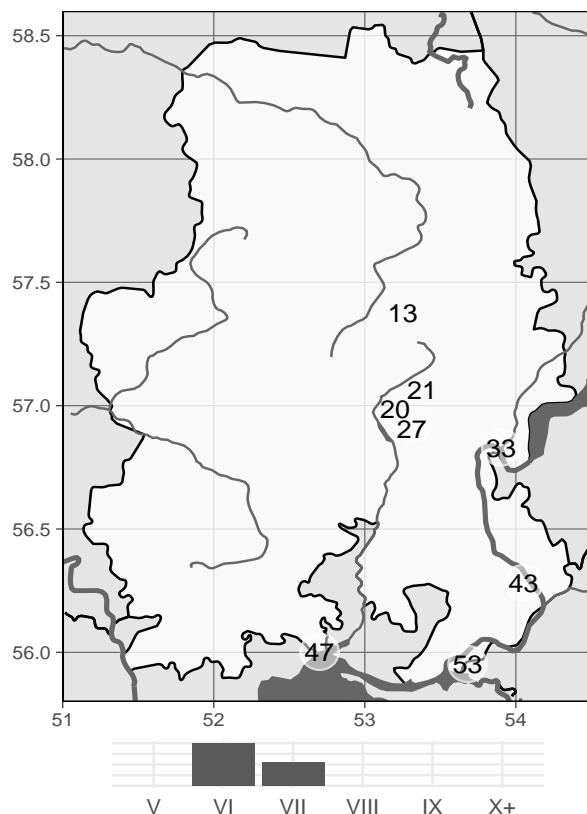


Fig. 45. Distribution map and phenology of *A. subnigra*

Biotope preferences: II – Meadowlands (8 %), III – Upland *Tilia* forests (7 %), III – Floodplain meadows (7 %), I – All the habitats (7 %), IV – Floodplain mesophytic meadows (6 %).

Associated species. Quantitative: *Dismodicus bifrons* (0.30), *Titanoeca schineri* (0.28), *Walckenaeria furcillata* (0.27), *Hypsosinga pygmaea* (0.25), *Stemonyphantes lineatus* (0.23).

Qualitative: *Walckenaeria furcillata* (0.32), *Hypsosinga pygmaea* (0.30), *Oedothorax gibbosus* (0.30), *Ozyptila claveata* (0.27), *Stemonyphantes lineatus* (0.27).

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

Argyroneta aquatica (Clerck, 1757)

Material (Fig. 46): Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Siva's delta (34): 1 ♀, open lake shore, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 juv., faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Chernushka (17): 1 ♀, open river bank, 5.V.2011, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 juv., floodplain meadow, 15.VI.2010, leg. A.N. Sozontov.

Associated species. Qualitative: *Tetragnatha montana* (0.25), *Clubiona neglecta* (0.22), *Clubiona phragmitis* (0.22), *Pirata piraticus* (0.21).

Stratum: aquatic.

Range: Palaearctic (Trans-Palaearctic) Polyzoal.

Brigittea latens (Fabricius, 1775)

Material: Zavyalovo Distr.: Golyany Zakamy (31): 1 juv., sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal-subarid.

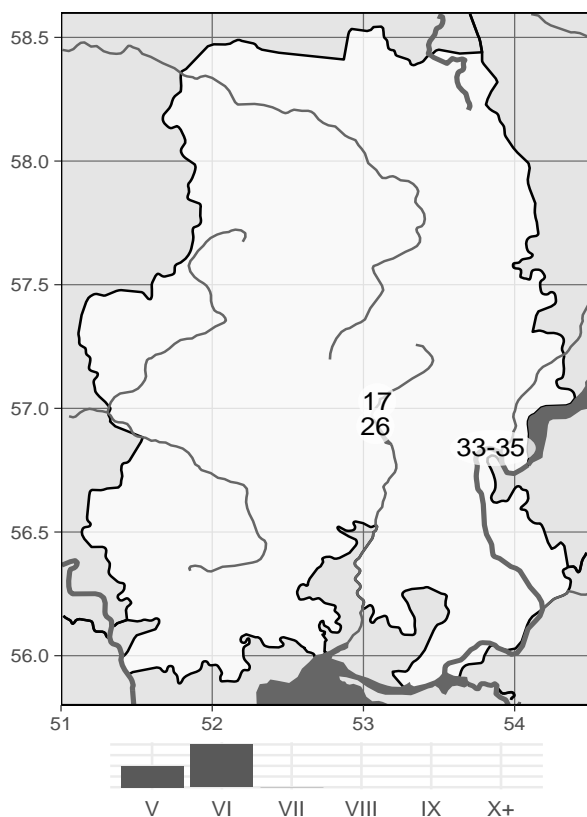


Fig. 46. Distribution map and phenology of *A. aquatica*

***Dictyna arundinacea* (Linnaeus, 1758)**

Material (Fig. 47): Alnashy Distr.: Golushurma (47): 17 ♂, 22 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 6 ♂, 12 ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 2 ♂, 3 ♀, sloping steppe meadow, 24.V.2013, leg. A.N. Sozontov; 2 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♂, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 3 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 5 ♂, 29 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 2 ♀, 1 juv., riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; 4 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, edge

of coniferous forest, 4.VI.2015, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 3 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 2 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; Cheganda (52): 5 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 12 ♂, 23 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; 1 ♂, 5 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamy (40): 1 ♀, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; Bima (42): 2 ♂, 14 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♀, edge of mixed forest, 6.V.2012, leg. M.N. Zagumenov; 1 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 17.VII.2014,

leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; 2 ♀, steppified meadow, 7.VI.2017, leg. A.N. Sozontov; 14 ♂, 38 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashcheva; 3 ♀, upland meadow, 8.VI.2017, leg. A.N. Sozontov; 11 ♂, 25 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashcheva; 7 ♀, 7 juv., bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashcheva; 2 ♂, 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashcheva; 1 ♂, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashcheva; 3 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashcheva; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 2 ♀, 1 subadult ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♂, 3 ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, sloping steppe meadow, 18.VI.2009, leg. A.N. Sozontov; 3 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; 1 ♀, open raised bog, 10.VI.2010, leg. A.N. Sozontov; 3 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 2 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♂, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (23 %), II – Meadowlands (14 %),

II – Wetlands (12 %), IV – Floodplain hygrophytic meadows (11 %), III – Floodplain meadows (11 %).

Associated species. Quantitative: *Evarcha arcuata* (0.26), *Mangora acalypha* (0.25), *Singa hamata* (0.20), *Xysticus ulmi* (0.18), *Phylloneta impressa* (0.16). **Qualitative:** *Phylloneta impressa* (0.45), *Tibellus oblongus* (0.41), *Mangora acalypha* (0.39), *Evarcha arcuata* (0.39), *Singa hamata* (0.37).

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Polyzoal.

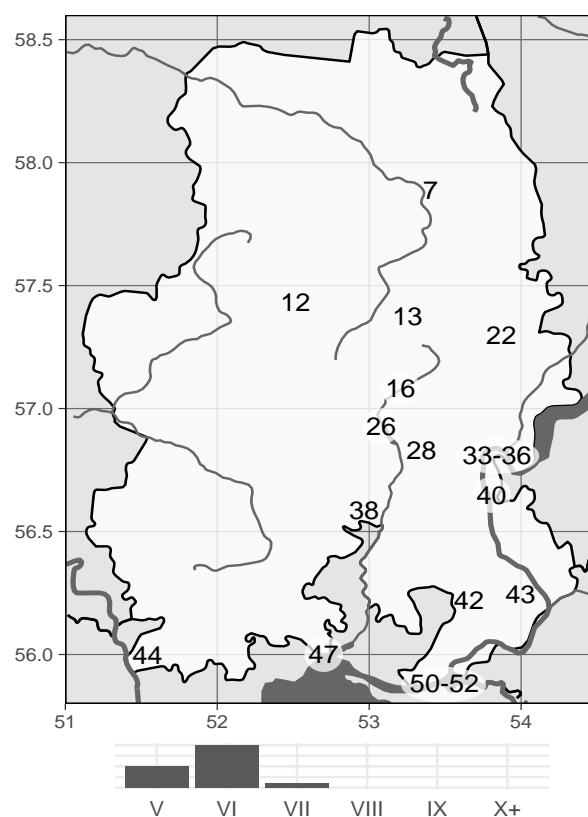


Fig. 47. Distribution map and phenology of *D. arundinacea*

Dictyna major Menge, 1869

Material: Karakulino Distr.: Ust'-Belsk (51): 2 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Temperate.

Dictyna pusilla Thorell, 1856

Material (Fig. 48): Alnashy Distr.: Golushurma (47): 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, anthropogenic habitat, 13.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; Malyashi (53): 3 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, faunistic record, 2.VIII.2010, leg. O.A. Semenova; Siva's delta (34): 1 ♀, *Pinus* forest, 21.VI.2013, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov.

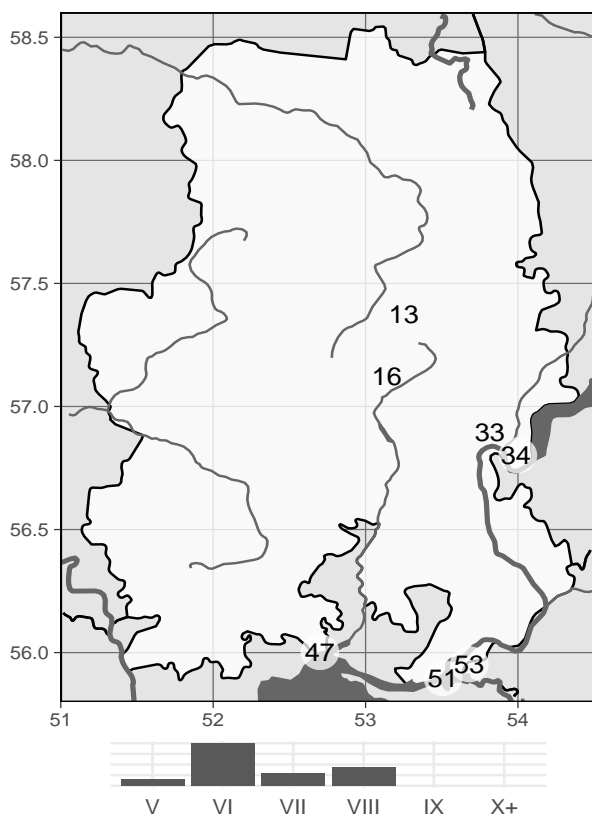


Fig. 48. Distribution map and phenology of *D. pusilla*

Biotopic preferences: III – Watersides (13 %), II – Wetlands (10 %), IV – Open banks of stagnant waters (7 %), IV – *Abies-Picea* forests (5 %), I – All the habitats (4 %).

Associated species. Quantitative: *Tetragnatha striata* (0.30), *Attulus floricola* (0.17), *Philodromus poecilus* (0.17), *Larinioides patagiatus* (0.14), *Arctosa leopardus* (0.13). **Qualitative:** *Tetragnatha striata* (0.27), *Attulus floricola* (0.24), *Dictyna uncinata* (0.18), *Theridion varians* (0.15), *Arctosa cinerea* (0.14).

Stratum: herb, shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Dictyna uncinata Thorell, 1856

Material (Fig. 49): Alnashy Distr.: Golushurma (47): 10 ♂, 5 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 4 ♀, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 2 ♀, 1 juv., upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, *Abies-Picea* forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 27.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♂, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; Ust'-Belsk (51): 1 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; 2 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 2 ♂, 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, *Abies-Picea* forest, 27.VI.2012, leg. A.N.

Sozontov; Votkinsk Distr.: Siva's delta (**34**): 3 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; 2 ♂, faunistic record, 30.VI.2017, leg. A.N. Sozontov; Noviy (**35**): 1 ♀, open river bank, 2.VII.2010, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (**27**): 4 ♂, 1 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Pozym Kabanikha (**28**): 2 ♂, 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

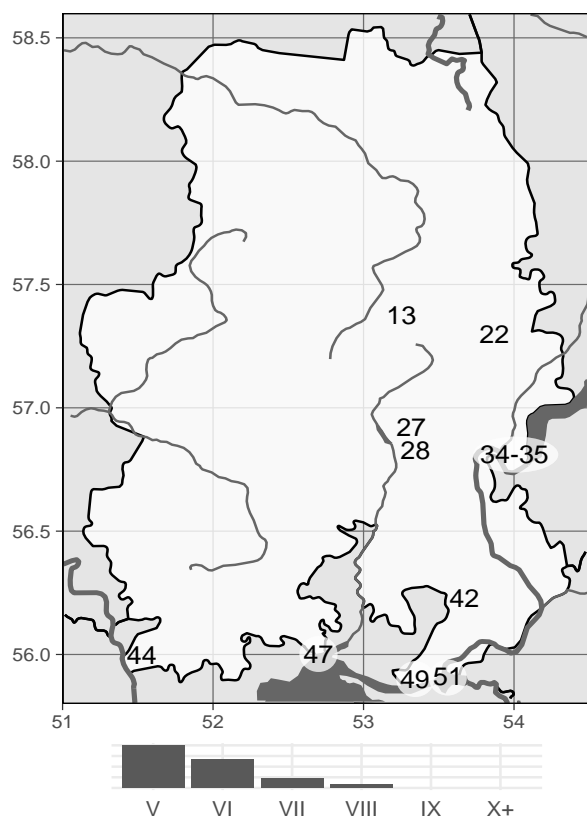


Fig. 49. Distribution map and phenology of *D. uncinata*

Biotope preferences: IV – Open banks of rivers (26 %), II – Wetlands (17 %), III – Watersides (16 %), I – All the habitats (9 %), III – Upland mixed forests (5 %).

Associated species. Quantitative: *Singa hamata* (0.24), *Drassodes villosus* (0.19), *Ballus chalybeius* (0.18), *Gongylidium rufipes* (0.16), *Dictyna*

arundinacea (0.14). **Qualitative:** *Ballus chalybeius* (0.28), *Tibellus oblongus* (0.25), *Singa hamata* (0.23), *Theridion varians* (0.23), *Tetragnatha dearmata* (0.22).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Emblyna mitis (Thorell, 1875)

Material: Karakulino Distr.: Shignanda (**50**): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov.

Stratum: herb.

Range: Euro-Siberian (European) Temperate.

Hackmania prominula (Tullgren, 1948)

Material (Fig. 50): Alnashy Distr.: Golushurma (**47**): 1 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 2 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♂, bottomland meadow, 15.V.2017, leg. Ya.A. Chuvashева; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Holarctic (EuroSiberian-WestNearctic) Boreal.

Lathys heterophthalma Kulczyński, 1891

Material (Fig. 51): Yakshur-Bodya Distr.: Selychka (**16**): 3 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (**21**): 3 ♂, 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Palaearctic (West-Palaearctic) Subboreal.

Lathys humilis (Blackwall, 1855)

Material: Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (**21**): 1 ♀, *Pinus*

forest, 4.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Palearctic (West-Central-Palearctic) Subboreal

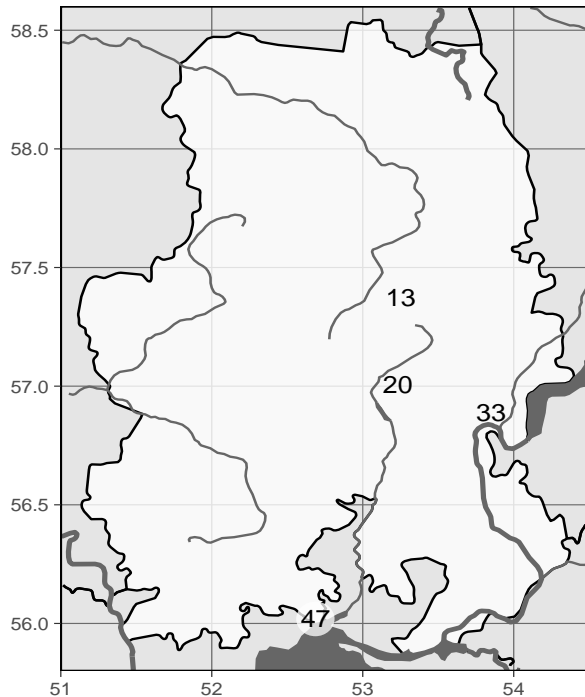


Fig. 50. Distribution map of *H. prominula*

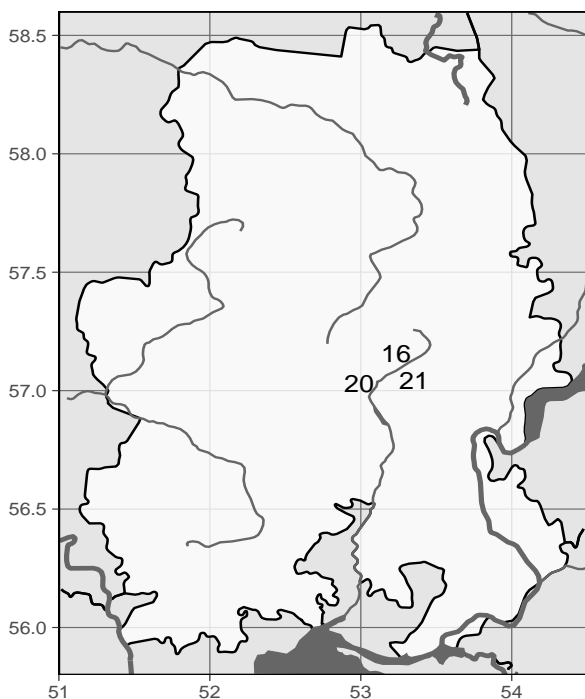


Fig. 51. Distribution map of *L. heterophthalma*

4.8. ERESIDAE

Eresus kollari Rossi, 1846

Stratum: ground, burrow.

Range: Palearctic (West-Palearctic) Subarid.

Remark: the species is not approved by collected material and is listed by the literature data [Zubko, 2001; Adakhovskiy et al., 2012].

4.7. GNAPHOSIDAE

Berlandina cinerea (Menge, 1872)

Material: Votkinsk Distr.: Noviy (35): 1 juv., *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov.

Stratum: ground, litter.

Range: Palearctic (West-Palearctic) Subarid.

Callilepis nocturna (Linnaeus, 1758)

Material (Fig. 52): Alnashy Distr.: Golushurma (47): 5 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 juv., *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 subadult ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, edge of coniferous forest, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-

Bodya Distr.: Selychka (16): 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Biotopic preferences: I – All the habitats (7 %), III – Upland mixed forests (4 %), II – Ecotones (4 %), III – Dry meadows (3 %), IV – Steppified slope meadows (3 %).

Associated species. Quantitative: *Titanoeca spominima* (0.22), *Titanoeca schineri* (0.18), *Drassyllus praeficus* (0.16), *Nerienne clathrata* (0.15), *Cnephalocotes obscurus* (0.14). **Qualitative:** *Titanoeca spominima* (0.26), *Titanoeca schineri* (0.24), *Haplodrassus pseudosignifer* (0.24), *Drassyllus praeficus* (0.22), *Asagena phalerata* (0.20).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

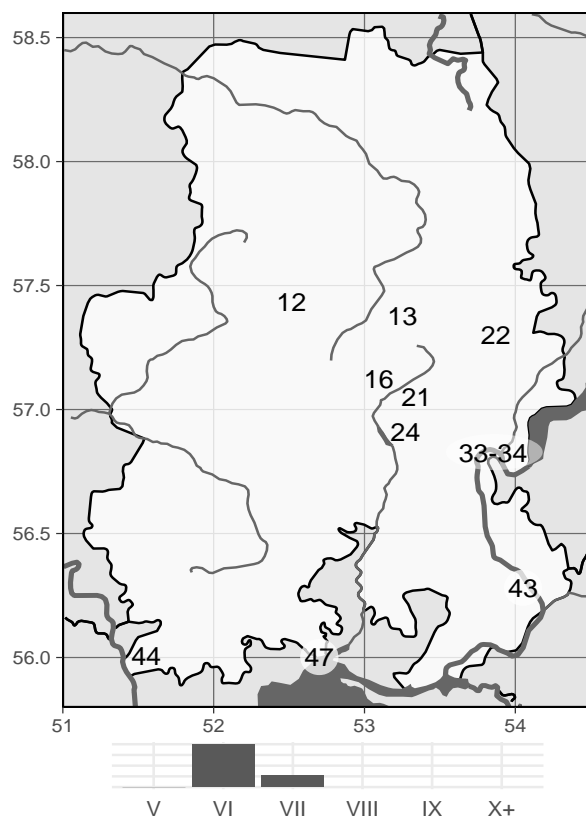


Fig. 52. Distribution map and phenology of *C. nocturna*

Drassodes pubescens (Thorell, 1856)

Material (Fig. 53): **Alnashy Distr.:** Golushurma (47): 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; **Karakulino Distr.:** Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♂, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; **Sarapul Distr.:** Sokolovka (43): 2 ♂, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; **Zavyalovo Distr.:** Pozym Kabanikha (28): 1 ♂, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov.

Biotopic preferences: IV – Steppified slope meadows (10 %), II – Meadowlands (9 %), III – Dry meadows (8 %), I – All the habitats (8 %), IV – Edges of coniferous forests (7 %).

Associated species. Quantitative: *Agroeca lusatica* (0.40), *Haplodrassus signifer* (0.27), *Agroeca cuprea* (0.24), *Zelotes azsheganovae* (0.24), *Ozyptila clavigera* (0.24). **Qualitative:** *Agroeca lusatica* (0.48), *Agroeca cuprea* (0.41), *Haplodrassus signifer* (0.34), *Zelotes longipes* (0.34), *Alopecosa solitaria* (0.33).

Stratum: ground (under stones).

Range: Palaearctic (Trans-Palaearctic)
Temperate.

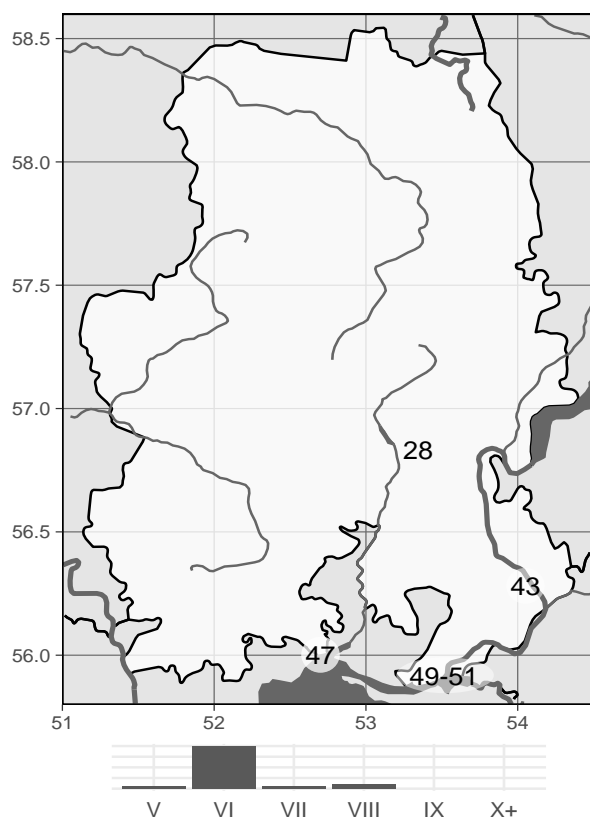


Fig. 53. Distribution map and phenology of *D. pubescens*

Drassodes villosus (Thorell, 1856)

Material (Fig. 54): Karakulino Distr.: Byrgynda (49): 1 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izboldina; Ust'-Belsk (51): 2 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 3 ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Vavozh Distr.: Vavozh (23): 1 ♀, Unheated indoor spaces, 23.VII.2012, M.N. Zagumenov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, Heated dwellings, 18.IV.2013, leg. A.V. Uskova.

Associated species. Qualitative: *Arctosa cinerea* (0.25), *Tetragnatha shoshone* (0.25), *Episinus angulatus* (0.22), *Tetragnatha striata* (0.22), *Dictyna uncinata* (0.21).

Stratum: ground (under stones).

Range: Palaearctic (Trans-Palaearctic)
Subboreal.

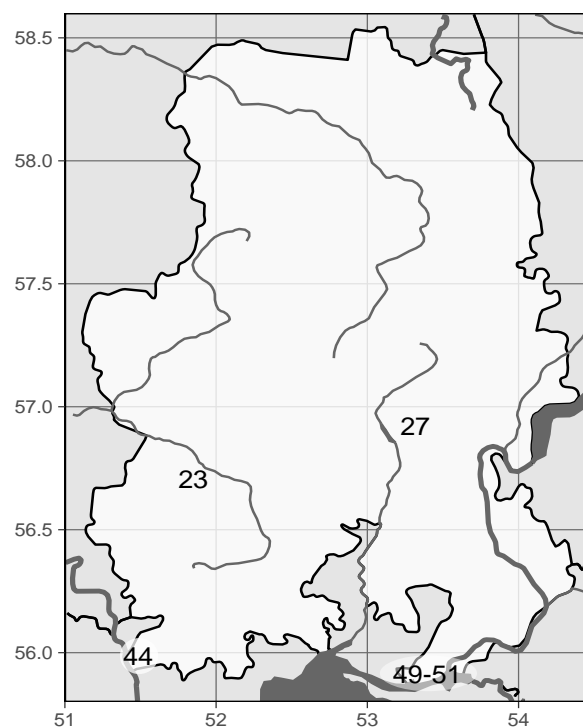


Fig. 54. Distribution map of *D. villosus*

Drassyllus lutetianus (L. Koch, 1866)

Material (Fig. 55): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, open raised bog, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, agrocoenosis, 28.V.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; 7 ♂, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2011, leg. E.S.

Shirobokova; 3 ♂, bottomland meadow, 25.VI.2011, leg. E.S. Shirobokova; 8 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 3 ♂, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 5 ♂, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 14.VI.2012, leg. E.S. Shirobokova; 8 ♂, 1 ♀, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, open river bank, 14.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 14.VII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, 1 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 5 ♂, 3 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; 4 ♂, 3 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, 4 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 2 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♂, 2 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 32 ♂, 7 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 34 ♂, 12 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 6 ♂, 3 ♀, bottomland meadow, 26.VI.2017,

leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 3 ♂, 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, 2 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 5 ♂, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, 2 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 2 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 5 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 2 ♀, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 1.VII.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; 2 ♂, 2 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Biotopic preferences: I – All the habitats (23 %), II – Wetlands (14 %), III – Floodplain meadows (14 %), II – Meadowlands (10 %), IV – Floodplain hygrophytic meadows (10 %).

Associated species. Quantitative: *Pachygnatha listeri* (0.49), *Pachygnatha degeeri* (0.48), *Trochosa ruricola* (0.32), *Drassyllus pusillus* (0.31), *Pardosa paludicola* (0.29). **Qualitative:** *Pardosa palustris* (0.45), *Haplodrassus pseudosignifer* (0.44), *Drassyllus pusillus* (0.43), *Trochosa ruricola* (0.41), *Pardosa fulvipes* (0.40).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

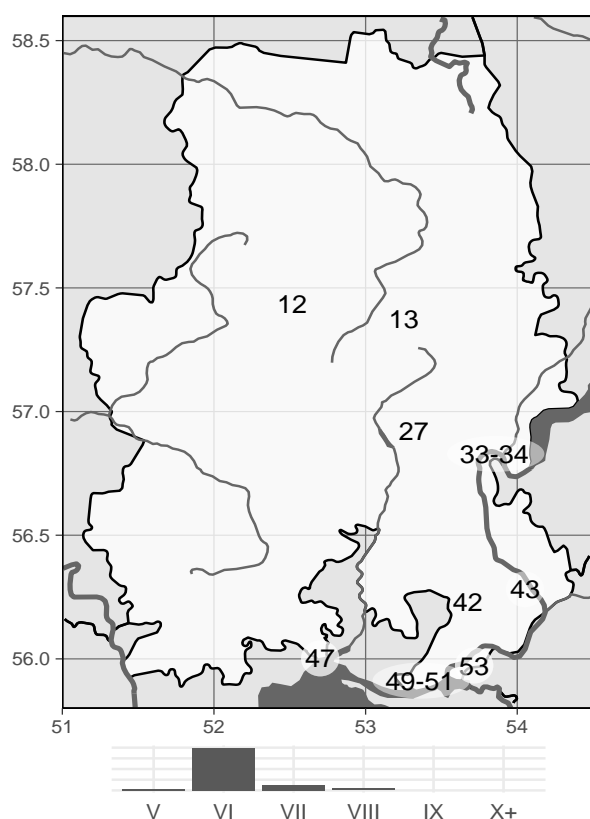


Fig. 55. Distribution map and phenology of *D. lutetianus*

***Drassyllus praefficus* (L. Koch, 1866)**

Material (Fig. 56): Alnashy Distr.: Golushurma (**47**): 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; 1 ♂, faunistic record, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (**12**): 1 ♂, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; Chutyr (**13**): 1 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 4 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 2 ♀, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (**50**): 1 ♂, floodplain steppified meadow, 18.VI.2012, leg.

A.N. Sozontov; Sarapul Distr.: Sokolovka (**43**): 4 ♂, 2 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♂, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 5 ♂, 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 3 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 2 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Siva's delta (**34**): 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (**16**): 1 ♂, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (**28**): 1 ♂, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotope preferences: IV – Edges of broadleaved forests (23 %), II – Ecotones (20 %), I – All the habitats (13 %), III – Forest edges (12 %), III – Upland mixed forests (7 %).

Associated species. Quantitative: *Zelotes azsheganovae* (0.23), *Zelotes latreillei* (0.20), *Drassyllus pusillus* (0.20), *Pardosa paludicola* (0.18), *Agroeca lusatica* (0.18). **Qualitative:** *Haplodrassus pseudosignifer* (0.45), *Drassyllus pusillus* (0.41), *Xerolycosa miniata* (0.36), *Drassyllus lutetianus* (0.34), *Alopecosa cuneata* (0.34).

Stratum: ground, litter.

Range: Palearctic (West-Palearctic)
Temperate.

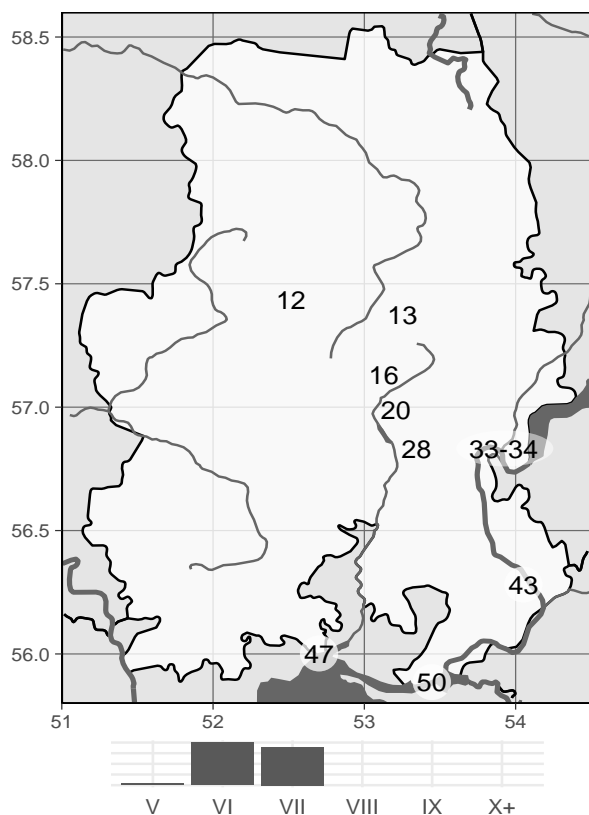


Fig. 56. Distribution map and phenology of *D. praeficus*

***Drassyllus pusillus* (C. L. Koch, 1833)**

Material (Fig. 57): Alnashy Distr.: Golushurma (47): 2 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 3 ♂, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 4 ♂, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 2 ♂, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂,

bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 9 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 3 ♂, 2 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 7.VIII.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 3 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, open river bank, 14.VII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, *Abies-Picea* forest, 26.VII.2009, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 3 ♀, agrocenosis, 27.VI.2017, leg. A.N. Izhboldina; 1 ♂, agrocenosis, 27.VII.2017, leg. A.N. Izhboldina; Ust'-Belsk (51): 1 ♂, 2 ♀, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 8 ♂, 2 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 4 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 19 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 7 ♂, 2 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, 2 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, 4 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 5 ♂, 3 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33):

2 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Siva's delta (34): 2 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 9 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

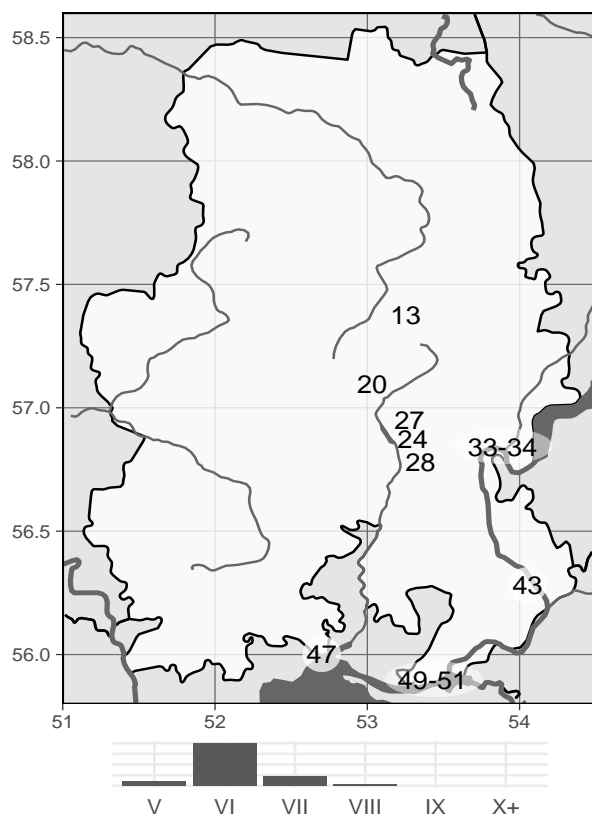


Fig. 57. Distribution map and phenology of *D. pusillus*

Biotopic preferences: I – All the habitats (22 %), II – Meadowlands (14 %), IV – *Alnus* groves (8 %), III – Dry meadows (8 %), III – Floodplain meadows (7 %).

Associated species. Quantitative: *Drassyllus lutetianus* (0.31), *Haplodrassus pseudosignifer* (0.29), *Haplodrassus signifer* (0.28), *Haplodrassus umbratilis* (0.27), *Pardosa paludicola* (0.26). **Qualitative:** *Alopecosa cuneata* (0.54), *Haplodrassus pseudosignifer* (0.50), *Xerolycosa miniata* (0.45), *Drassyllus lutetianus* (0.43), *Alopecosa pulverulenta* (0.42).

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Gnaphosa lugubris* (C. L. Koch, 1839)**

Material: Karakulino Distr.: Ust'-Belsk (51): 3 ♂, 2 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov & S.V. Dedyukhin.

Stratum: ground, litter.

Range: Palaearctic (West-Palaearctic) Temperate.

***Gnaphosa montana* (L. Koch, 1866)**

Material (Fig. 58): Karakulino Distr.: Byrgynda (49): 1 ♀, Unheated indoor spaces, 27.VI.2017, leg. A.N. Izboldina; 2 ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izboldina; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VII.2012, leg. A.A. Ivanova; Vavozh Distr.: Vavozh (23): 1 ♀, Unheated indoor spaces, 21.VII.2012, leg. M.N. Zagumenov; Votkinsk Distr.: Noviy (35): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, Unheated indoor spaces, 1.IX.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, Unheated indoor spaces, 19.V.2012, leg. A.N. Sozontov;

SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Steatoda castanea* (0.16), *Parasteatoda tabulata* (0.15), *Troxochrota scabra* (0.12), *Larinioides ixobolus* (0.11). **Qualitative:** *Parasteatoda tabulata* (0.27), *Steatoda castanea* (0.26), *Leviellus stroemi* (0.22), *Steatoda grossa* (0.20), *Steatoda bipunctata* (0.18).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

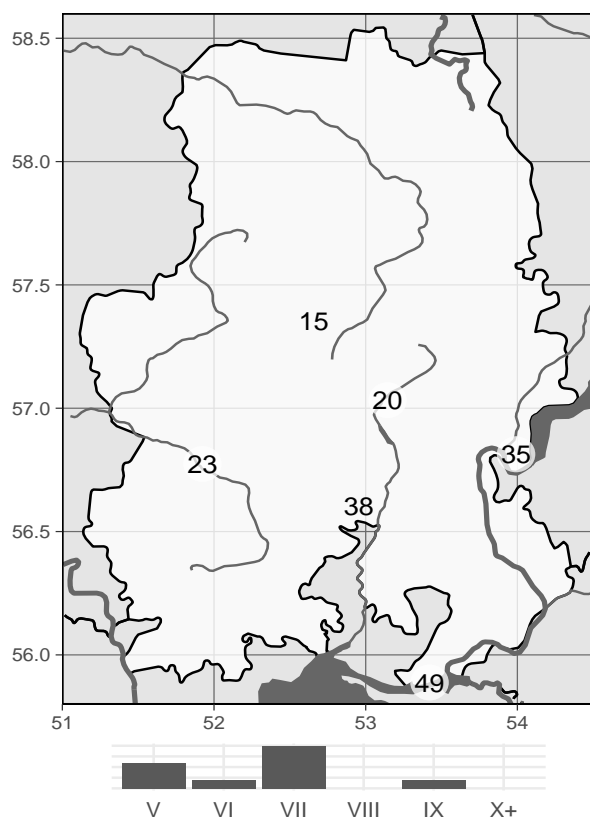


Fig. 58. Distribution map and phenology of *G. montana*

Haplodrassus cognatus (Westring, 1861)

Material (Fig. 59): Igra Distr.: Chutyr (13): 1 ♂, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov;

Sarapul Distr.: Sokolovka (43): 1 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova.

Associated species. Qualitative: *Talavera aequipes* (0.29), *Thanatus sabulosus* (0.29), *Diplocephalus picinus* (0.27), *Clubiona pallidula* (0.27), *Cnephlocotes obscurus* (0.27).

Stratum: ground, litter.

Range: Palaearctic (Amphi-Palaearctic) Temperate.

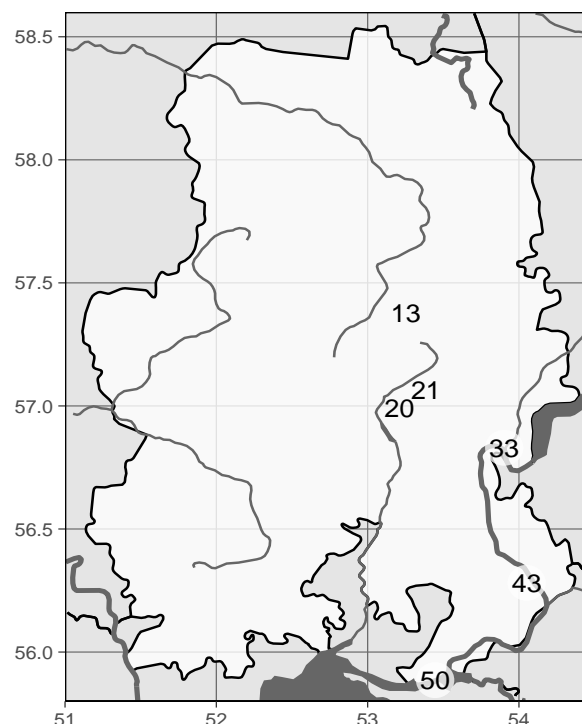


Fig. 59. Distribution map of *H. cognatus*

Haplodrassus moderatus (Kulczyński, 1897)

Material (Fig. 60): Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; Sarapul Distr.:

Sokolovka (43): 1 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin.

Stratum: ground, litter.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

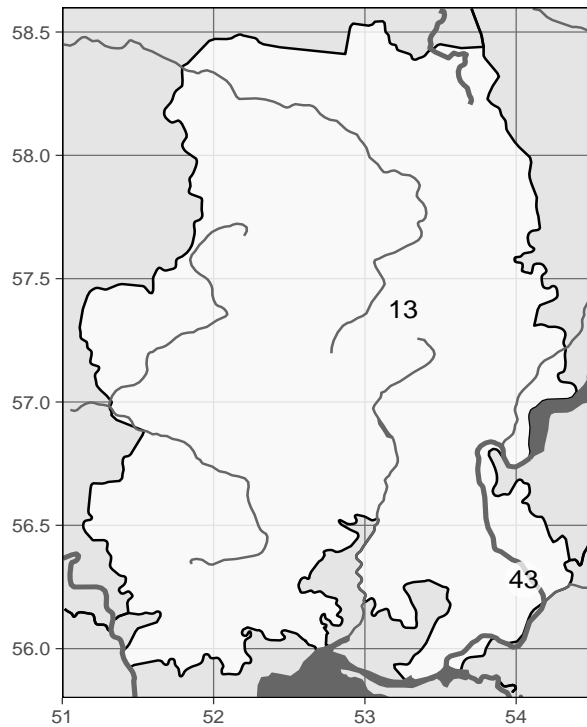


Fig. 60. Distribution map of *H. moderatus*

Haplodrassus pseudosignifer Marusik,
Hippen & Koponen, 1996

Material (61): Alnashy Distr.: Golushurma (47): 2 ♂, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 16 ♂, 2 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 20 ♂, 5 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 45 ♂, 12 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 9 ♂, 9 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 3 ♂, 5 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 8 ♂,

1 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 12 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, 2 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 16.VII.2011, leg. E.S. Shirobokova; 2 ♂, 2 ♀, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 21 ♂, 8 ♀, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 2 ♂, dark coniferous forest with *Tilia*, 29.VI.2012, leg. E.S. Shirobokova; 5 ♂, 4 ♀, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 2 ♂, upland meadow, 14.VII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, anthropogenic habitat, 19.V.2013, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♂, 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, 1 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 7 ♂, 8 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 6 ♂, 3 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S.

Tatarkin; 1 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 12 ♂, 7 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, 2 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♂, 3 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 5 ♂, 1 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 5 ♂, 6 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 2 ♂, 9 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 5 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 6 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Biotope preferences: III – Dry meadows (28 %), I – All the habitats (22 %), II – Meadowlands (20 %), IV – Steppified slope meadows (15 %), II – Ecotones (14 %).

Associated species. Quantitative: *Thanatus arenarius* (0.47), *Mustelicosa dimidiata* (0.31), *Drassyllus pusillus* (0.29), *Alopecosa farinosa* (0.23), *Haplodrassus umbratilis* (0.23). **Qualitative:** *Drassyllus pusillus* (0.50), *Alopecosa cuneata* (0.47), *Xerolycosa miniata* (0.46), *Drassyllus praeficus* (0.45), *Drassyllus lutetianus* (0.44).

Stratum: ground, litter.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid

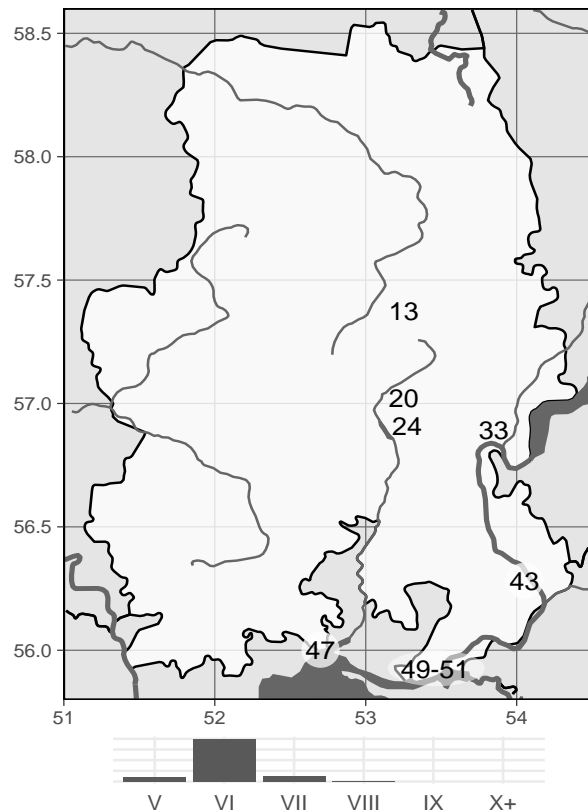


Fig. 61. Distribution map and phenology of *H. pseudosignifer*

Haplodrassus signifer (C.L. Koch, 1839)

Material (Fig. 62): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, 5 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 5.VIII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 3 ♂, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 3 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 5 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, 4 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation

(Perevozhnoe) (33): 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 3 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov.

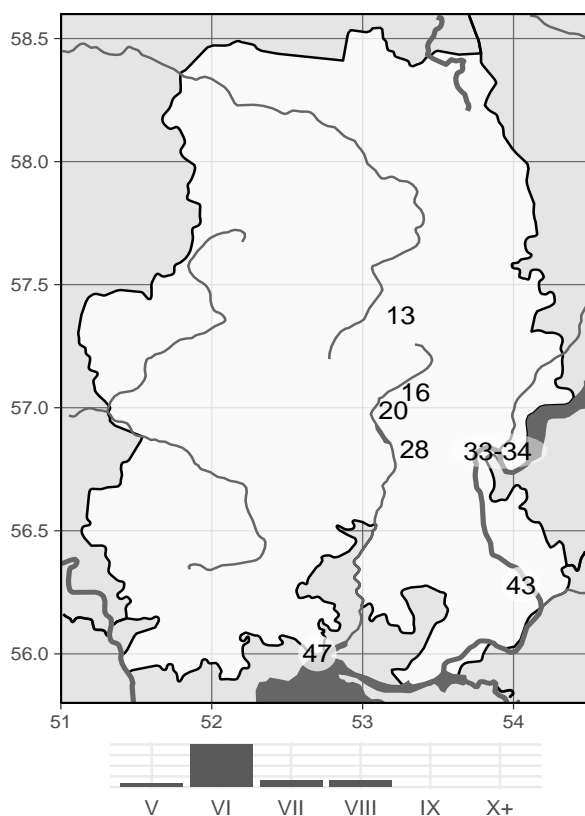


Fig. 62. Distribution map and phenology of *H. signifer*

Biotope preferences: II – Ecotones (9 %), I – All the habitats (9 %), III – Dry meadows (8 %), IV – Upland meadows (7 %), II – Meadowlands (7 %).

Associated species. Quantitative: *Ozyptila clavata* (0.30), *Asagena phalerata* (0.29), *Drassyllus pusillus* (0.28), *Drassodes pubescens* (0.27),

Centromerus sylvaticus (0.20).

Qualitative: *Drassodes pubescens* (0.34), *Drassyllus praeficus* (0.33), *Asagena phalerata* (0.30), *Alopecosa solitaria* (0.30), *Drassyllus pusillus* (0.29).

Stratum: ground, litter.

Range: Holarctic (Circum-Holarctic) Polyzoal.

Haplodrassus silvestris (Blackwall, 1833)

Material (Fig. 63): Alnashy Distr.: Golushurma (47): 3 ♂, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♀, riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; 3 ♂, 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 3 ♂, 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♀, riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain *Quercus* forest, 21.VIII.2011, leg. A.N. Sozontov; 1 ♂, 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♀, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 5 ♂, 9 ♀, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 1 ♂, 1 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 1 ♂, *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Siva's delta (34): 53 ♂, 8 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov; Yakshur-

Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova.

Biotopic preferences: III – Floodplain deciduous forests (52 %), IV – Floodplain *Quercus* forests (39 %), II – Woodlands (19 %), IV – Floodplain broadleaved forests (10 %), I – All the habitats (8 %).

Associated species. Quantitative: *Xysticus luctator* (0.27), *Haplodrassus umbratilis* (0.25), *Microneta viaria* (0.20), *Pardosa lugubris* (0.18), *Phrurolithus festinus* (0.15). **Qualitative:** *Panamomops menzei* (0.34), *Xysticus luctator* (0.34), *Abacoproeces saltuum* (0.30), *Microneta viaria* (0.27), *Hahnina pusilla* (0.26).

Stratum: ground, litter.

Range: Euro-Siberian (European) Subboreal.

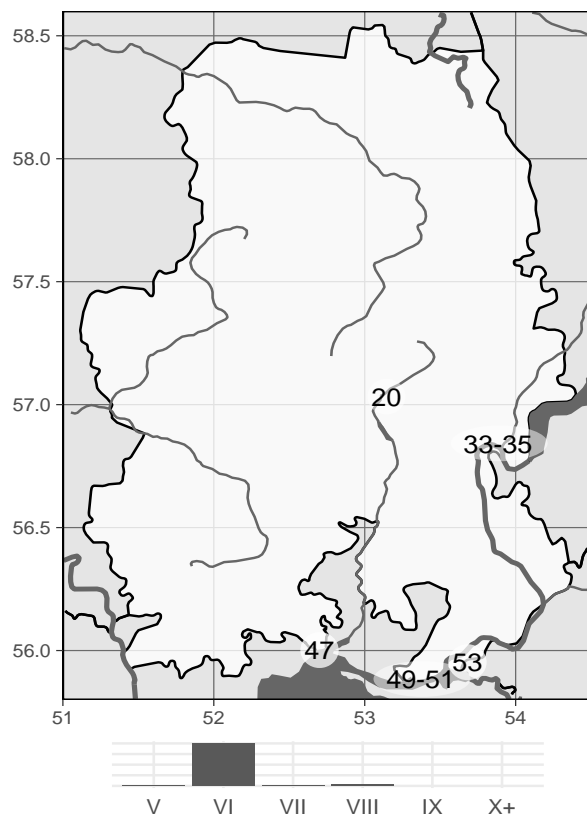


Fig. 63. Distribution map and phenology of *H. silvestris*

Haplodrassus soerenseni (Strand, 1900)

Material (Fig. 64): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous

forest, 17.VI.2013, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 2 ♂, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 6 ♀, dark coniferous forest with *Tilia*, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 14.VI.2012, leg. E.S. Shirobokova; 2 ♂, 2 ♀, edge of mixed forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 14.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 3 ♂, 1 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 2 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 4 ♂, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; Volkovskiy (36): 1 ♀, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 7 ♂, 1 juv., *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 25 ♂, 5 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 5 ♂, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 17 ♂, 6 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 9 ♂, 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A.

Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 5 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 11 ♂, 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 15 ♂, 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 8 ♂, 7 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 7 ♂, 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 4.VII.2017, leg. S.A. Shirobokova; 2 ♂, 3 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 13 ♂, 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 8 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

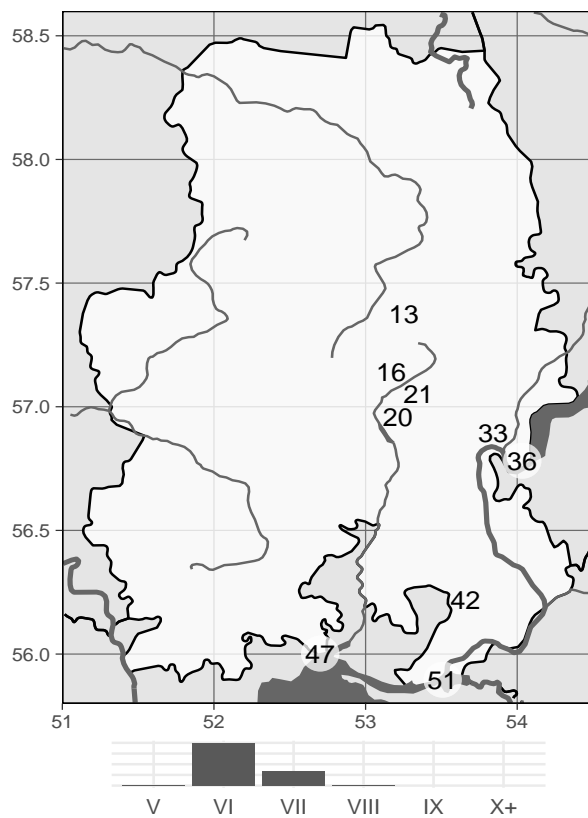


Fig. 64. Distribution map and phenology of *H. soerenseni*

Biotopic preferences: III – Upland coniferous forests (40 %), IV – *Pinus* forests (34 %), II – Woodlands (27 %), I – All the habitats (17 %), IV – Edges of mixed forests (13 %).

Associated species. Quantitative: *Agyneta subtilis* (0.60), *Zelotes clivicola* (0.45), *Xerolycosa nemoralis* (0.34), *Alopecosa aculeata* (0.34), *Zora nemoralis* (0.31). **Qualitative:** *Zelotes clivicola* (0.54), *Alopecosa aculeata* (0.49), *Xysticus luctuosus* (0.48), *Xerolycosa nemoralis* (0.44), *Agyneta subtilis* (0.44).

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

***Haplodrassus umbratilis* (L. Koch, 1866)**

Material (Fig. 65): Alnashy Distr.: Golushurma (47): 4 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; **Igra Distr.:** Chutyr (13): 6 ♂, 1 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; **Karakulino Distr.:** Byrgynda (49): 2 ♀, agrocoenosis, 5.VI.2017, leg. A.N.

Izhboldina; **Sarapul Distr.:** Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, 1 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, 2 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 10 ♂, 59 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 33 ♂, 11 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, 11 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 54 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, 17 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 5 ♂, 9 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 4 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; 3 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; 9 ♀, upland meadow, 24.VIII.2017, leg. K.S. Tatarkin; **Votkinsk Distr.:** 'Siva' biostation (Perevozhnoe) (33): 1 ♂, 1 ♀, 1 juv., floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; Siva's delta (34): 64 ♂, 7 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; **Yakshur-Bodya Distr.:** SNT 'Sirius' (20): 3 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 9 ♂, 3 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest,

28.VI.2017, leg. S.A. Shirobokova; 14 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 5.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Biotopic preferences: I – All the habitats (24 %), III – Dry meadows (22 %), II – Meadowlands (21 %), IV – Steppified slope meadows (12 %), IV – Upland meadows (10 %).

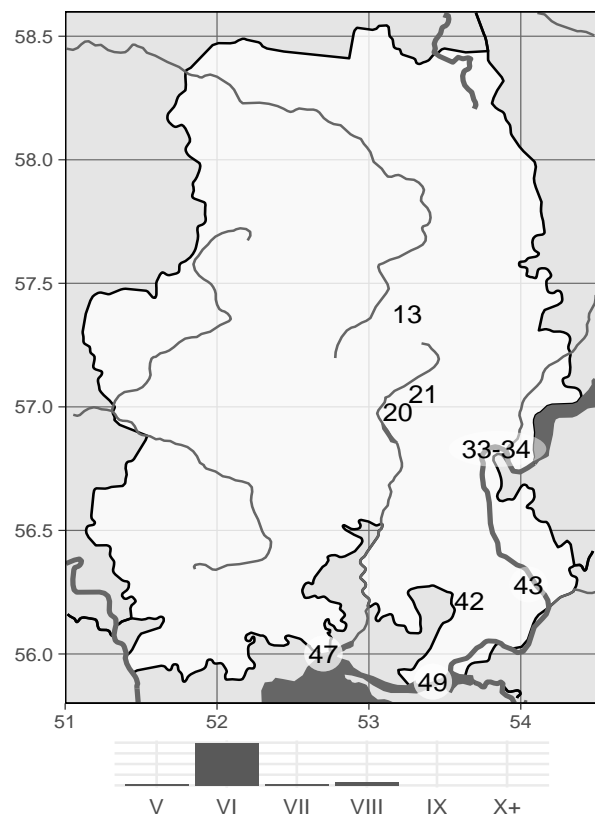


Fig. 65. Distribution map and phenology of *H. umbratilis*

Associated species. Quantitative: *Drassyllus pusillus* (0.27), *Haplodrassus silvestris* (0.25), *Haplodrassus pseudosignifer* (0.23), *Pardosa lugubris* (0.20), *Zelotes azsheganovae* (0.16).

Qualitative: *Zelotes azsheganovae* (0.48), *Haplodrassus pseudosignifer* (0.40), *Alopecosa cuneata* (0.38), *Drassyllus pusillus* (0.37), *Alopecosa pulverulenta* (0.35).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

Micaria aenea Thorell, 1871

Material: Igra Distr.: Novye Zyatci (12): 1 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov.

Stratum: ground, litter.

Range: Holarctic (Circum-Holarctic) Boreal-mountain.

Micaria formicaria (Sundevall, 1831)

Material (Fig. 66): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, upland meadow, 1.VIII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♂, 1 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; Cheganda (52): 2 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 2 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 17.VIII.2017, leg.

K.S. Tatarkin; 2 ♀, upland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov.

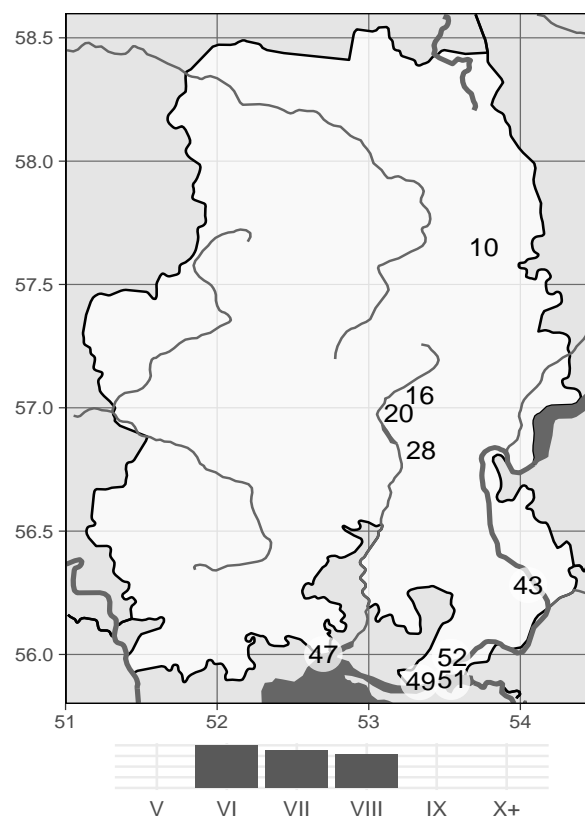


Fig. 66. Distribution map and phenology of *M. formicaria*

Biotope preferences: III – Dry meadows (15 %), II – Meadowlands (9 %), IV – Steppified slope meadows (8 %), I – All the habitats (7 %), IV – Upland meadows (6 %).

Associated species. Quantitative: *Agyneta saaristoi* (0.12), *Zelotes longipes* (0.12), *Panamomops menzei* (0.10), *Maso sundevalli* (0.10), *Thanatus formicinus* (0.10). **Qualitative:** *Zelotes longipes* (0.44), *Alopecosa farinosa* (0.27), *Agyneta*

affinis (0.21), *Agyneta saaristoi* (0.18), *Haplodrassus umbratilis* (0.17).

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Micaria fulgens (Walckenaer, 1802)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova.

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Micaria nivosa L. Koch, 1866

Material: Sarapul Distr.: Sokolovka (43): 1 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin.

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Micaria pulicaria (Sundevall, 1831)

Material (Fig. 67): Alnashy Distr.: Pirogovo (46): 1 ♀, upland meadow, 10.VII.2009, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; 1 ♀, open raised bog, 1.VII.2015, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Izhevsk (24): 1 ♀, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 2 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Yakshur-

Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotope preferences: II – Wetlands (7 %), I – All the habitats (7 %), III – Bogs (6 %), IV – Open raised bogs (4 %), IV – Open banks of stagnant waters (4 %).

Associated species. Quantitative: *Arctosa leopardus* (0.24), *Philodromus poecilus* (0.21), *Episinus angulatus* (0.18), *Cercidia prominens* (0.17), *Micaria silesiaca* (0.17). **Qualitative:** *Arctosa leopardus* (0.25), *Cercidia prominens* (0.22), *Episinus angulatus* (0.21), *Walckenaeria atrotibialis* (0.21), *Antistea elegans* (0.19).

Stratum: ground, litter.

Range: Holarctic (Circum-Holarctic) Temperate.

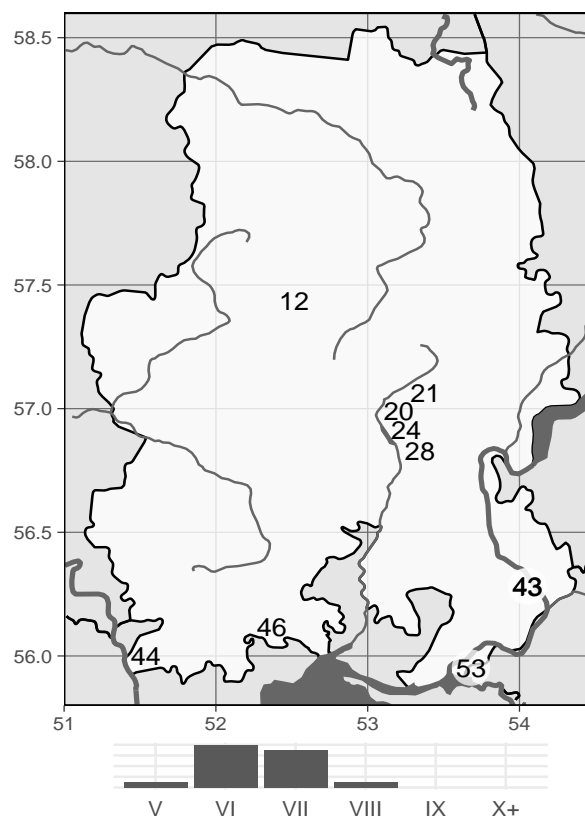


Fig. 67. Distribution map and phenology of *M. pulicaria*

***Micaria silesiaca* L. Koch, 1875**

Material: Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin

Associated species. Qualitative: *Arctosa figurata* (0.67), *Ozyptila claveata* (0.57), *Arctosa leopardus* (0.40), *Pardosa agricola* (0.38), *Oedothorax gibbosus* (0.33).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

***Micaria subopaca* Westring, 1861**

Material: Igra Distr.: Chutyr (13): 1 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova.

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Scotophaeus scutulatus* (L. Koch, 1866)**

Material: Karakulino Distr.: Byrgynda (49): 1 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina.

Stratum: synanthrope (inside and outside buildings in Europe)

Range: West-Central Palaearctic synanthrope (?)

***Zelotes azsheganovae* Eshunin & Efimik, 1992**

Material (Fig. 68): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13):

1 ♂, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 2 ♂, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 2 ♂, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 3 ♂, 1 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 4 ♂, 3 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 1 ♂, edge of deciduous forest, 3.VII.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, 4 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous

forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (19 %), III – Dry meadows (16 %), II – Meadowlands (14 %), IV – Upland meadows (10 %), IV – Steppified slope meadows (8 %).

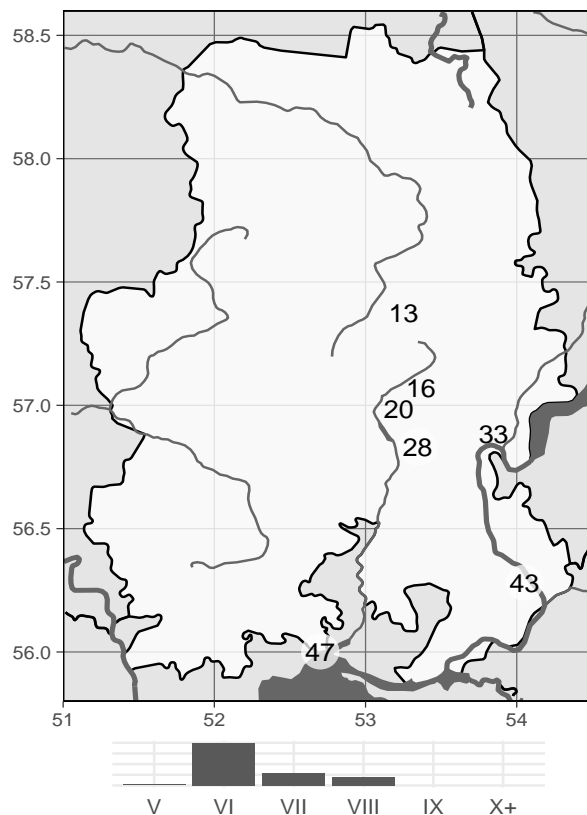


Fig. 68. Distribution map and phenology of *Z. azsheganovae*

Associated species. Quantitative: *Centromerus sylvaticus* (0.24), *Drassodes pubescens* (0.24), *Drassyllus pusillus* (0.23), *Drassyllus praeficus* (0.23), *Agroeca lusatica* (0.22). **Qualitative:** *Haplodrassus umbratilis* (0.48), *Haplodrassus pseudosignifer* (0.39), *Drassyllus pusillus* (0.36), *Alopecosa pulverulenta* (0.34), *Alopecosa cuneata* (0.34).

Stratum: ground, litter.

Range: Palaearctic (Amphi-Palaearctic) Subboreal.

Zelotes clivicola (L. Koch, 1870)

Material (Fig. 69): Igra Distr.: Novye Zyatci (12): 1 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, 3 ♀, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 25.VI.2011, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 3 ♂, 2 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♂, 2 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A.

Shirobokova; 6 ♂, 8 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 11 ♂, 2 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 4 ♂, 1 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 4 ♂, 6 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 2 ♂, 6 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, 4 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 5 ♂, 3 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Biotope preferences: IV – *Pinus* forests (65 %), III – Upland coniferous forests (57 %), II – Woodlands (34 %), I – All the habitats (16 %), III – Upland mixed forests (2 %).

Associated species. Quantitative: *Haplodrassus soerenseni* (0.45), *Zelotes subterraneus* (0.40), *Xerolycosa nemoralis* (0.39), *Zora nemoralis* (0.37), *Agyneta subtilis* (0.35). **Qualitative:** *Zelotes subterraneus* (0.57), *Minyriolus pusillus* (0.54), *Haplodrassus soerenseni* (0.54), *Zora nemoralis* (0.50), *Xerolycosa nemoralis* (0.48).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

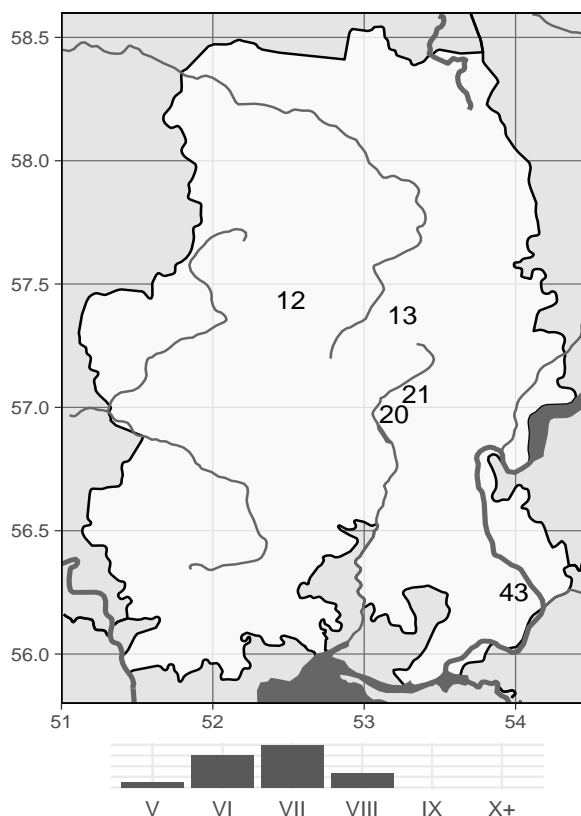


Fig. 69. Distribution map and phenology of *Z. clivicola*

Zelotes electus (C. L. Koch, 1839)

Material: Igra Distr.: Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova.

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Subboreal-subarid.

Zelotes exiguus (Müller & Schenkel, 1895)

Material (Fig. 70): Yakshur-Bodya Distr.: Selychka (16): 2 ♂, 3 ♀, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; 4 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova;

Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Associated species. Quantitative: *Centromerus brevipalpus* (0.19), *Agyneta cauta* (0.18), *Xysticus luctuosus* (0.16), *Cnephlocotes obscurus* (0.16), *Tibioplus diversus* (0.16). **Qualitative:** *Tibioplus diversus* (0.29), *Alopecosa aculeata* (0.28), *Centromerus arcanus* (0.27), *Cnephlocotes obscurus* (0.27), *Xerolycosa nemoralis* (0.26).

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

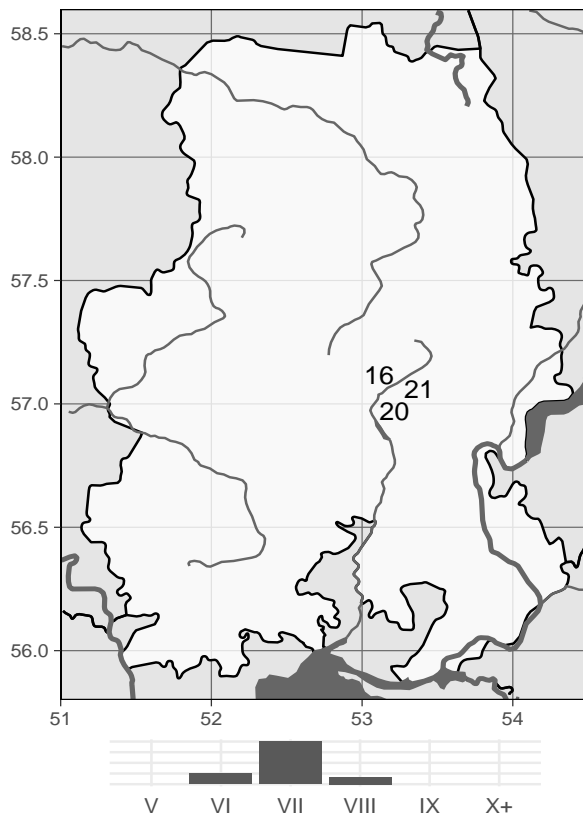


Fig. 70. Distribution map and phenology of *Z. exiguus*

Zelotes latreillei (Simon, 1878)

Material (Fig. 71): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova;

3 ♂, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, *Abies-Picea* forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 20.VIII.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, dark coniferous forest with *Tilia*, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, edge of mixed forest, 20.VIII.2011, leg. E.S. Shirobokova; 3 ♂, 3 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 3.IX.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 14.VII.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♂, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; 1 ♂, agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♂, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; 2 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VII.2012, leg. A.A. Ivanova; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S.

Tatarkin; 2 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, 2 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 5 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♂, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 2 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 3 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 3 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♂, 1 ♀, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♂, open raised bog, 15.VII.2015, leg. A.N. Sozontov

Biotope preferences: I – All the habitats (21 %), II – Ecotones (14 %), IV – *Alnus* groves (12 %), IV – Edges of mixed forests (10 %), II – Meadowlands (8 %).

Associated species. Quantitative: *Pardosa maisa* (0.21), *Drassyllus praeeficus* (0.20), *Zelotes azsheganovae* (0.19), *Drassyllus pusillus* (0.17), *Drassyllus lutetianus* (0.16). **Qualitative:** *Alopecosa cuneata* (0.38), *Pardosa palustris* (0.37), *Trochosa ruricola* (0.37), *Xerolycosa miniata* (0.36), *Drassyllus pusillus* (0.35).

Stratum: ground, litter.

Range: Palaearctic (West-Palaearctic) Temperate.

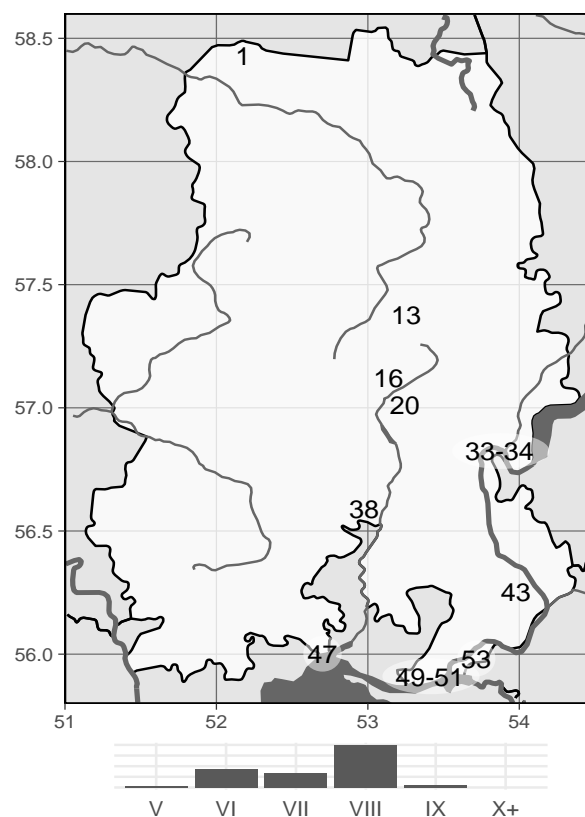


Fig. 71. Distribution map and phenology of *Z. latreillei*

***Zelotes longipes* (L. Koch, 1866)**

Material (72): Alnashy Distr.: Golushurma (47): 3 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 15 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 4 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; 1 ♂, 2 ♀, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; 12 ♂, 5 ♀, sloping steppe meadow, 5.VIII.2014, leg. A.N. Sozontov; 31 ♂, 1 ♀, sloping steppe meadow, 30.VIII.2014, leg. A.N. Sozontov; 17 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 11 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂,

open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (**43**): 2 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 2 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 10 ♂, 7 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 8 ♂, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 24.VIII.2017, leg. K.S. Tatarkin.

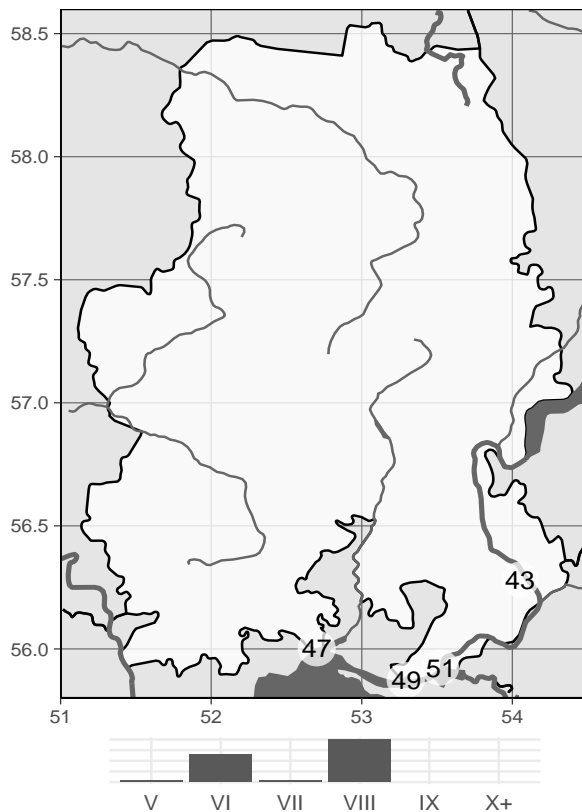


Fig. 72. Distribution map and phenology of *Z. longipes*

Biotope preferences: IV – Steppified slope meadows (23 %), III – Dry meadows (15 %), IV – Edges of coniferous forests (12 %), II – Meadowlands (9 %), II – Ecotones (9 %).

Associated species. Quantitative:

Alopecosa solitaria (0.56), *Alopecosa farinosa* (0.39), *Thanatus arenarius* (0.27), *Haplodrassus pseudosignifer* (0.20), *Mustelicosa dimidiata* (0.16).

Qualitative: *Alopecosa farinosa* (0.62), *Alopecosa solitaria* (0.52), *Micaria formicaria* (0.44), *Thanatus arenarius* (0.42), *Drassodes pubescens* (0.34).

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

***Zelotes mundus* (Kulczyński, 1897)**

Material: Sarapul Distr.: Sokolovka (**43**): 1 ♂, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin.

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Subarid.

***Zelotes petrensis* (C. L. Koch, 1839)**

Material (Fig. 73): Igra Distr.: Novye Zyatci (**12**): 1 ♂, 1 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; Chutyr (**13**): 1 ♂, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (**16**): 12 ♀, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♂, 4 ♀, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 5 ♂, 2 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest,

21.VII.2017, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 8 ♂, 2 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♂, 3 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, 5 ♀, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; 2 ♂, 2 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova.

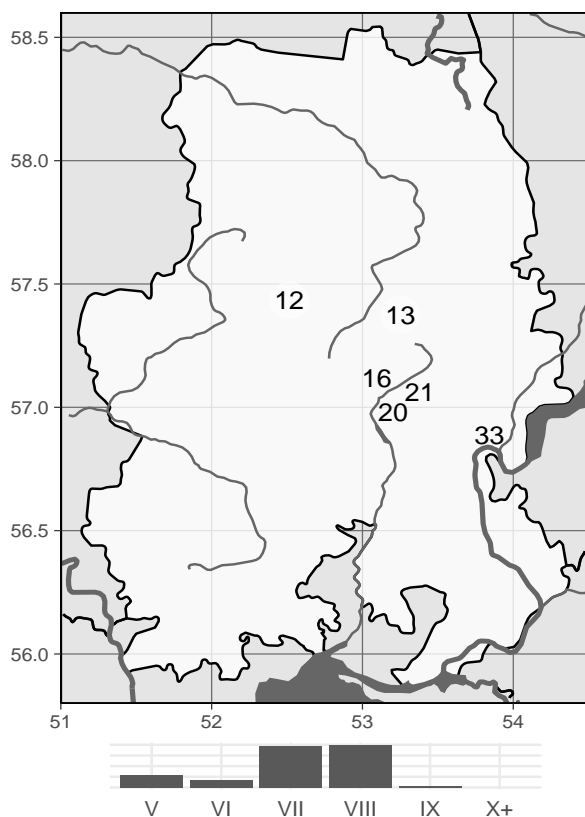


Fig. 73. Distribution map and phenology of *Z. petrensis*

Biotope preferences: III – Upland coniferous forests (25 %), IV – *Pinus* forests (23 %), I – All the habitats (12 %), IV – Edges of coniferous forests (11 %), II – Woodlands (9 %).

Associated species. Quantitative: *Zelotes subterraneus* (0.31), *Agroeca brunnea* (0.29), *Zelotes clivicola* (0.26), *Trochosa terricola* (0.26), *Xerolycosa nemoralis* (0.21). **Qualitative:** *Alopecosa aculeata* (0.44), *Agroeca brunnea* (0.43), *Zelotes clivicola* (0.40), *Zelotes subterraneus* (0.40), *Xerolycosa nemoralis* (0.39).

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Zelotes pseudogallicus Ponomarev, 2007

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 6 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 16 ♂, 4 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Hahn timer pusilla* (0.37), *Walckenaeria cucullata* (0.35), *Centromerus clarus* (0.31), *Centromerus incilium* (0.31), *Thyreosthenius parasiticus* (0.28). **Qualitative:** *Macrargus carpenteri* (0.56), *Walckenaeria furcillata* (0.46), *Walckenaeria alticeps* (0.45), *Tapinocyba bispissa* (0.40), *Minyriolus pusillus* (0.36).

Stratum: ground, litter.

Range: Euro-Siberian (European) Subarid.

***Zelotes subterraneus* (C. L. Koch, 1833)**

Material (Fig. 74): Alnashy Distr.: Golushurma (47): 2 ♂, 1 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 3 ♂, 1 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 6 ♂, 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 2 ♂, 1 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 2 ♂, 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 1 ♂, 2 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 20.VIII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; Siva's delta (34): 13 ♂, 7 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, *Tilia* forest, 12.VI.2010, leg. A.N. Sozontov; 1 ♂, dark

coniferous forest with *Tilia*, 2.VII.2010, leg. A.N. Sozontov; 1 ♂, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Selychka (16): 2 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 4 ♂, 2 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 11 ♂, 5 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 4 ♂, 2 ♀, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 8 ♂, 4 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 6 ♂, 4 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 3 ♂, 2 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 7 ♂, 6 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 4 ♂, 2 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 5 ♂, 3 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 6 ♀, *Pinus* forest,

1.VII.2018, leg. S.A. Shirobokova; 3 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 8 ♂, 8 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 2 ♂, 5 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 3.VIII.2018, leg. S.A. Shirobokova; 5 ♂, 6 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♂, faunistic record, 1.VII.2017, leg. A.N. Sozontov; 2 ♂, 1 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 5 ♂, 2 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 24.VII.2017, leg. S.A. Shirobokova; 3 ♂, 6 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 5 ♂, 6 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 15 ♂, 5 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 3 ♂, 7 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 7 ♂, 2 ♀, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; 3 ♂, 2 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova.

Biotopic preferences: II – Woodlands (55 %), III – Upland coniferous forests (54 %), IV – *Pinus* forests (50 %), I – All the habitats (31 %), IV – Floodplain broadleaved forests (10 %).

Associated species. Quantitative: *Trochosa terricola* (0.53), *Zelotes clivicola* (0.40), *Zelotes petrensis* (0.31), *Hahnia ononidum* (0.31), *Alopecosa aculeata*

(0.28). **Qualitative:** *Trochosa terricola* (0.58), *Zelotes clivicola* (0.57), *Alopecosa aculeata* (0.48), *Hahnia ononidum* (0.47), *Pardosa lugubris* (0.46).

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Polyzonal.

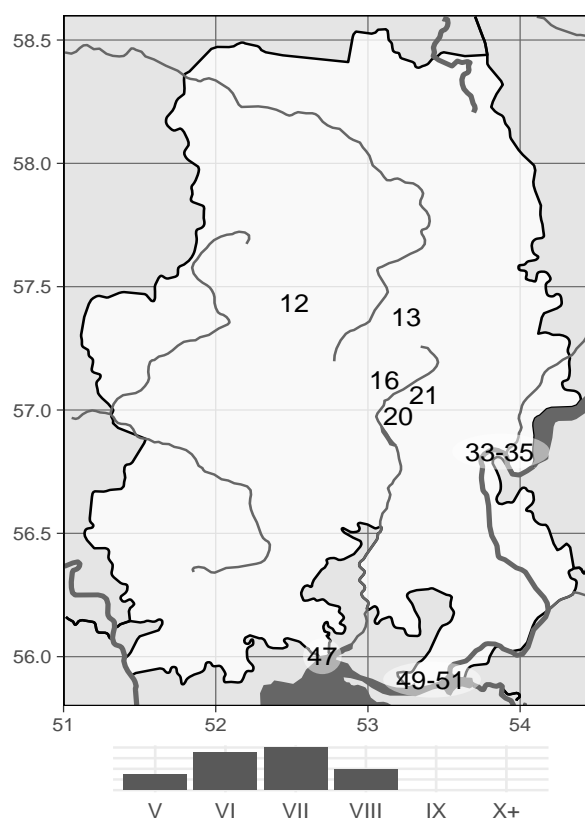


Fig. 74. Distribution map and phenology of *Z. subterraneus*

3.9. HAHNIIDAE

Antistea elegans (Blackwall, 1841)

Material (Fig. 75): Glazov Distr.: Lyum (4): 1 ♀, faunistic record, 1.VIII.2014, leg. A.N. Sozontov; 52 ♂, 4 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 46 ♀, 1 subadult ♂, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 19 ♀, 1 juv., open raised bog, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀,

open river bank, 14.VI.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 4 ♂, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♂, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 3 ♂, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 8 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♂, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♂, *Abies-Picea* forest, 15.VII.2015, leg. A.N. Sozontov; 1 ♀, open raised bog, 15.VII.2015, leg. A.N. Sozontov; 13 ♂, 3 ♀, 1 juv., wooded raised bog, 15.VII.2015, leg. A.N. Sozontov.

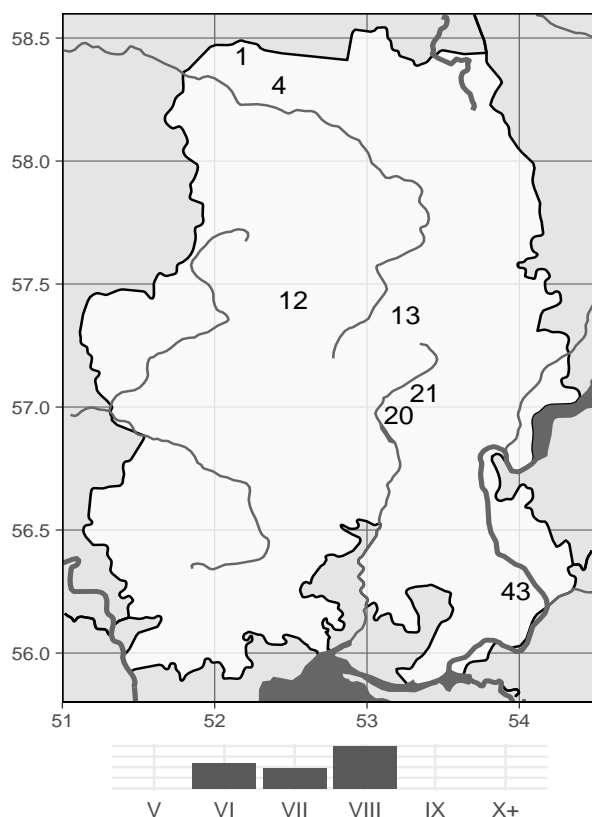


Fig. 75. Distribution map and phenology of *A. elegans*

Biotope preferences: III – Bogs (80 %), IV – Open raised bogs (46 %), IV – Wooded raised bogs (39 %), II – Wetlands (27 %), I – All the habitats (7 %).

Associated species. Quantitative: *Pardosa sphagnicola* (0.38), *Piratula hygrophila* (0.28), *Pirata piraticus* (0.20), *Pocadicnemis pumila* (0.19), *Pardosa maisa* (0.10). **Qualitative:** *Pardosa sphagnicola* (0.37), *Pardosa maisa* (0.35), *Pocadicnemis pumila* (0.32), *Piratula hygrophila* (0.26), *Micaria pulicaria* (0.19).

Stratum: litter (moss).

Range: Euro-Siberian (European-WestSiberian) Boreal.

Cicurina cicur (Fabricius, 1793)

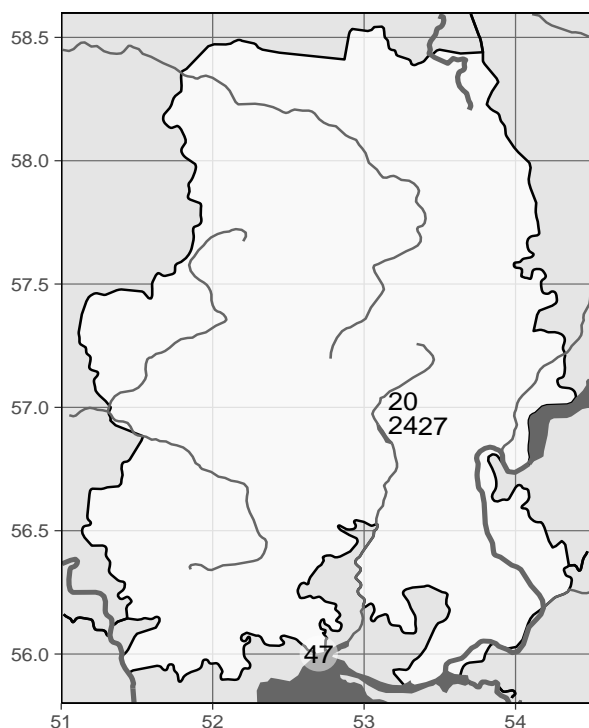
Material (Fig. 76): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; Izhevsk (24): 1 ♂, agrocoenosis, 15.IX.2013, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

Hahnina nava (Blackwall, 1841)

Material (Fig. 77): Igra Distr.: Novye Zyatci (12): 1 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 4.VII.2017, leg. S.A. Shirobokova; 4 ♂,

Fig. 76. Distribution map of *C. cicur*

2 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, 5 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 2 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

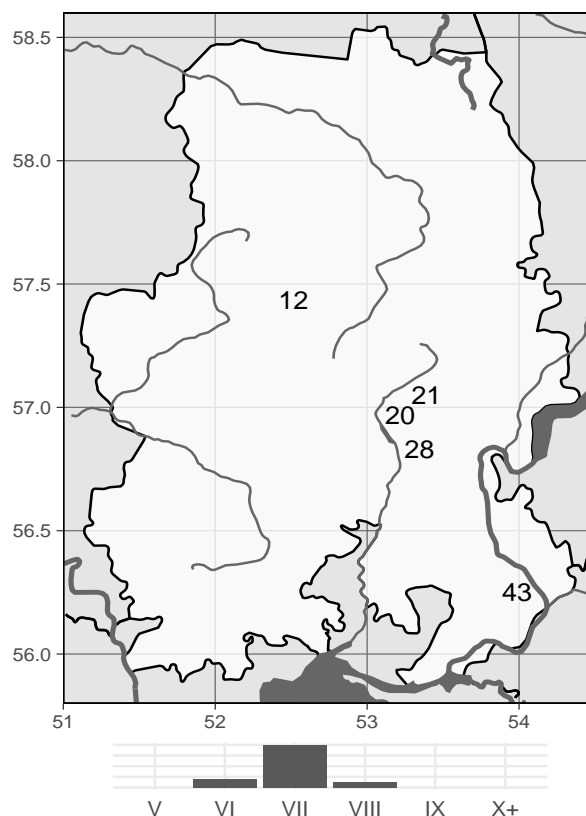
Associated species. Quantitative: *Xysticus audax* (0.28), *Glyphesis nemoralis* (0.27), *Titanoeca quadriguttata* (0.26), *Robertus arundineti* (0.22), *Lathys humilis* (0.17). **Qualitative:** *Lathys humilis* (0.36), *Talavera aperta* (0.36), *Glyphesis nemoralis* (0.33), *Metapanamomops kaestneri* (0.29), *Agyneta affinis* (0.28).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

***Hahnia ononidum* Simon, 1875**

Material (Fig. 78): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 3 ♀, *Pinus* forest, 4.VI.2015, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015,

Fig. 77. Distribution map and phenology of *H. nava*

leg. A.N. Sozontov; Chutyr (13): 1 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♀, *Pinus* forest, 14.VI.2012, leg. A.N. Sozontov; 1 ♀, 1 subadult ♂, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 6 ♂, 8 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♂, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 1 ♀, *Quercus-Tilia* forest, 4.VII.2016, leg. S.V. Dedyukhin; 3 ♀, floodplain *Quercus* forest, 6.VII.2016, leg. S.V. Dedyukhin; 1 ♀, floodplain *Quercus* forest, 7.VII.2016, leg. A.V. Uskova; 1 ♀, *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Siva's delta (34): 1 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 6 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus*

forest, 17.V.2017, leg. S.A. Shirobokova; 5 ♂, 2 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 7 ♂, 2 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 13 ♂, 2 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 7 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 14 ♂, 3 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 31.V.2018, leg. S.A. Shirobokova; 5 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 3 ♂, watershed coniferous forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 5 ♂, 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 5 ♂, 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A.

Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

Biotopic preferences: III – Upland coniferous forests (36 %), IV – *Pinus* forests (30 %), II – Woodlands (23 %), I – All the habitats (20 %), IV – Open banks of rivers (3 %).

Associated species. Quantitative: *Hahnia pusilla* (0.39), *Zelotes subterraneus* (0.31), *Anguliphantes angulipalpis* (0.25), *Trochosa terricola* (0.25), *Haplodrassus soerenseni* (0.23). **Qualitative:** *Minyriolus pusillus* (0.48), *Zelotes subterraneus* (0.47), *Hahnia pusilla* (0.46), *Alopecosa aculeata* (0.45), *Anguliphantes angulipalpis* (0.45).

Stratum: litter, moss.

Range: Holarctic (Circum-Holarctic) Polyzoal.

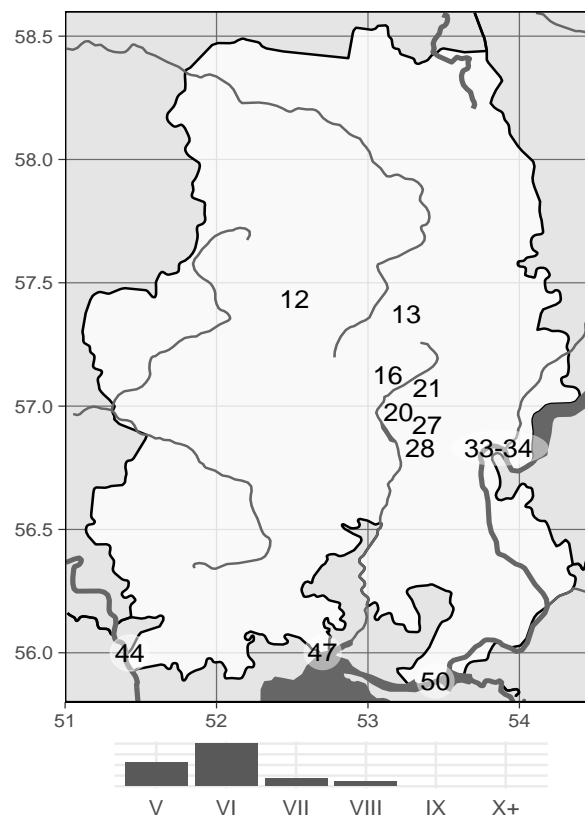


Fig. 78. Distribution map and phenology of *H. ononidum*

***Hahnia pusilla* C. L. Koch, 1841**

Material (Fig. 79): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 3 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 12 ♂, 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 3 ♀, watershed coniferous forest, 25.VI.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 10 ♂, 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 8 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 28 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka'

(21): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Biotopic preferences: III – Upland coniferous forests (22 %), IV – *Pinus* forests (19 %), I – All the habitats (13 %), II – Woodlands (12 %), IV – Edges of coniferous forests (3 %).

Associated species. Quantitative: *Hahnia ononidum* (0.39), *Zelotes pseudogallicus* (0.37), *Walckenaeria cucullata* (0.29), *Centromerus incilium* (0.27), *Trochosa terricola* (0.26). **Qualitative:** *Hahnia ononidum* (0.46), *Walckenaeria cucullata* (0.43), *Tapinocyba bispissa* (0.40), *Zelotes subterraneus* (0.39), *Zora nemoralis* (0.36).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

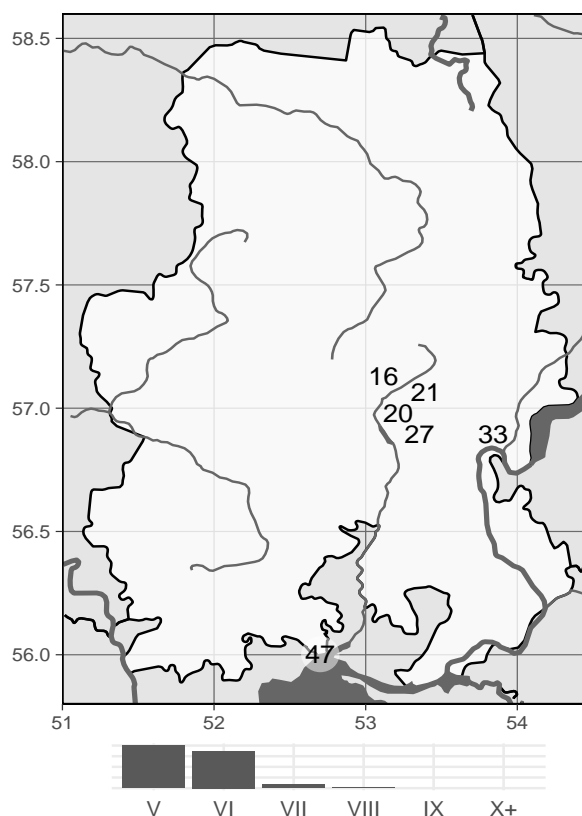


Fig. 79. Distribution map and phenology of *H. pusilla*

Hahnia sibirica Marusik, Hippa
& Koponen, 1996

Material: Sharkan Distr.: Sharkan (22): 1 ♂, 3 ♀, watershed coniferous forest, 28.VI.2012, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (Trans-Siberian) Boreal.

Mastigusa arietina (Thorell, 1871)

Material (Fig. 80): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, *Alnus* groves, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova.

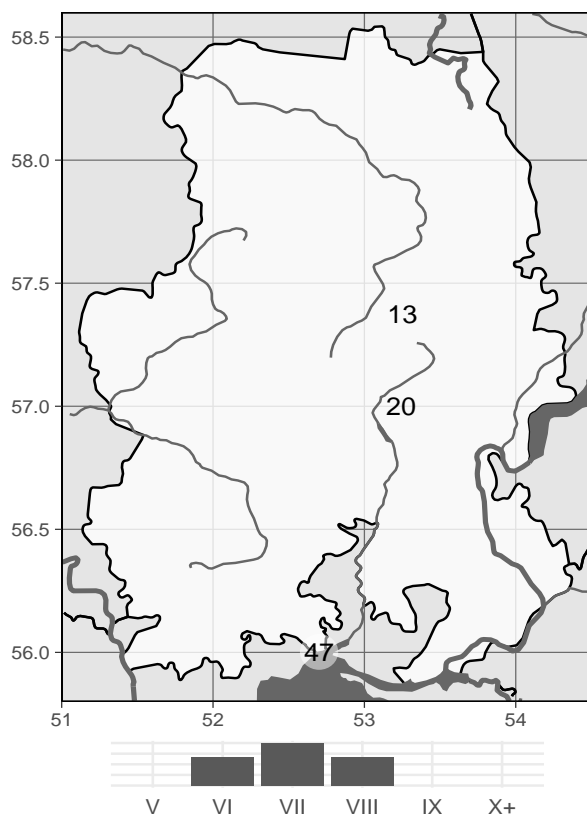


Fig. 80. Distribution map and phenology of *M. arietina*

Associated species. Qualitative: *Walckenaeria furcillata* (0.36), *Titanoeca schineri* (0.27), *Argenna subnigra* (0.20), *Episinus angulatus* (0.20), *Neon reticulatus* (0.18).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal

3.10. LINYPHIIDAE

Abacoproeces saltuum (L. Koch, 1872)

Material (Fig. 81): Alnashy Distr.: Golushurma (47): 3 ♂, 1 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 113 ♂, 36 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 16 ♂, 2 ♀, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov; 9 ♂, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 3 ♂, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 2 ♀, dark coniferous forest with *Tilia*, 6.VII.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 28.IX.2012, leg. E.S. Shirobokova; 3 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 5 ♂, 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♀, *Pinus*

forest, 14.VI.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; 3 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 7 ♂, 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 6 ♂, 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 7 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; 1 ♀, open lak shore, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, dark coniferous forest with *Tilia*, 14.VIII.2009, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 3 ♂, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 3 ♂, 1 ♀, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 5 ♂, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 3 ♀, floodplain *Quercus* forest, 6.VII.2016, leg. S.V. Dedyukhin; 3 ♀, *Quercus-Populus* forest, 7.VII.2016, leg. S.V. Dedyukhin; 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Siva's delta (34): 4 ♂, 2 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♂, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 5.VII.2017, leg. S.A. Shirobokova; 4 ♂, 2 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, *Abies-Picea* forest, 15.VII.2015, leg. A.N. Sozontov.

Biotopic preferences: III – Floodplain deciduous forests (52 %), IV – Floodplain broadleaved forests (51 %), II – Woodlands (31 %), I – All the habitats (18 %), IV – *Abies-Picea* forests (10 %).

Associated species. Quantitative: *Xysticus luctator* (0.33), *Euryopis flavomaculata* (0.24), *Ozyptila praticola* (0.24), *Zelotes subterraneus* (0.14), *Pardosa lugubris* (0.13). **Qualitative:** *Euryopis flavomaculata* (0.35), *Ozyptila praticola* (0.33), *Microneta viaria* (0.32), *Xysticus luctator* (0.32), *Pardosa lugubris* (0.31).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

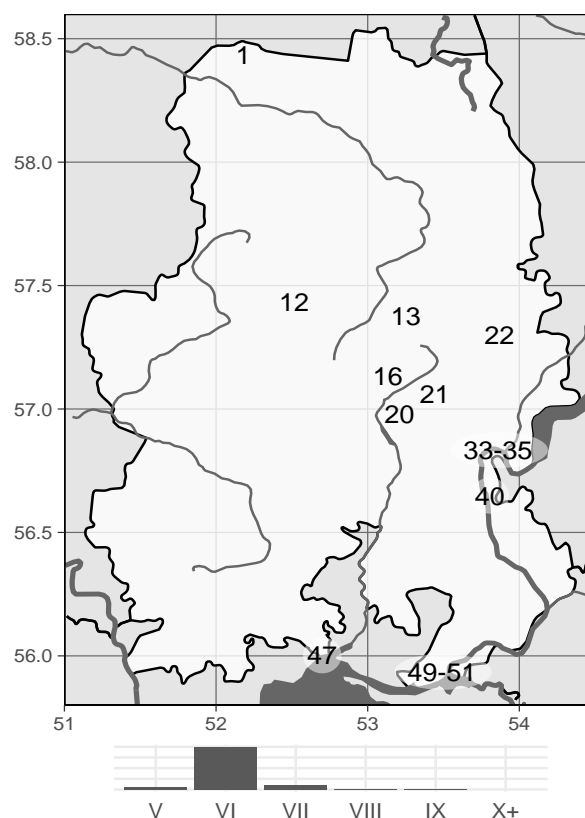


Fig. 81. Distribution map and phenology of *A. saltuum*

Agyneta affinis (Kulczyński, 1898)

Material (Fig. 82): Igra Distr.: Novye Zyatci (12): 2 ♂, 1 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 1 ♀,

Pinus forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (**13**): 1 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Cheganda (**52**): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (**43**): 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Siva's delta (**34**): 8 ♂, 4 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 2 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 17 ♂, 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, 2 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 3 ♂, 2 ♀, watershed coniferous forest, 5.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (**21**): 6 ♂, 5 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (**27**): 4 ♂, 2 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (**28**): 1 ♂, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 7 ♂, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotopic preferences: IV – *Alnus* groves (18 %), II – Woodlands (11 %), I – All the habitats (10 %), III – Upland *Tilia* forests (7 %), III – Bogs (5 %).

Associated species. Quantitative: *Diplocephalus picinus* (0.24), *Phrurolithus festivus* (0.21), *Microneta viaria* (0.20), *Euryopsis flavomaculata* (0.18), *Robertus lividus* (0.18). **Qualitative:** *Minyriolus*

pusillus (0.39), *Xysticus luctuosus* (0.37), *Palliduphantes alutacius* (0.35), *Tapinocyba insecta* (0.34), *Agyneta subtilis* (0.33).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

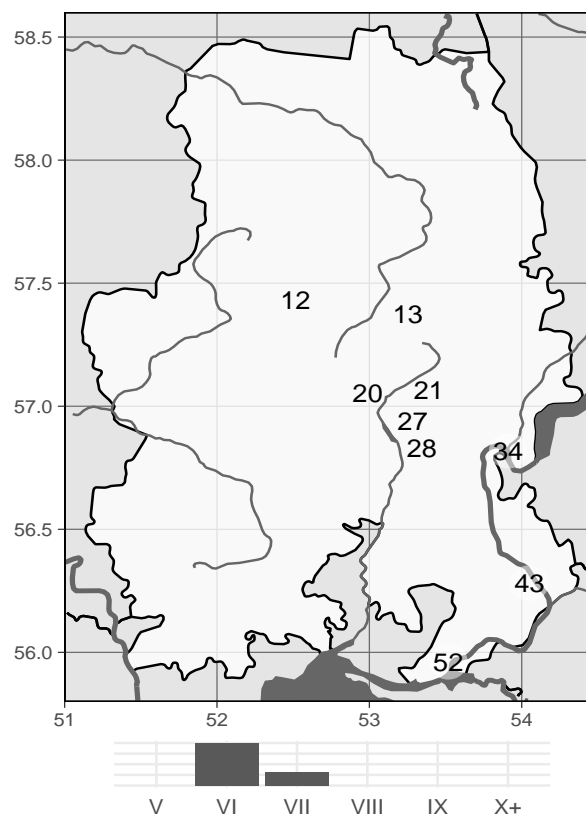


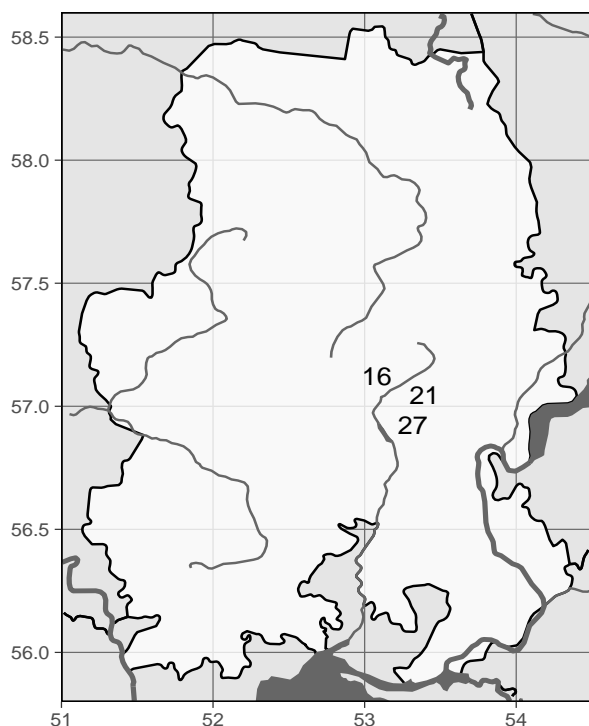
Fig. 82. Distribution map and phenology of *A. affinis*

Agyneta cauta (O. Pickard-Cambridge, 1903)

Material (Fig. 83): Yakshur-Bodya Distr.: Selychka (**16**): 2 ♂, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; Urochishche 'Skipidarka' (**21**): 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (**27**): 1 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Euro-Siberian (European) Temperate.

Fig. 83. Distribution map of *A. cauta*

Agyneta conigera (O. Pickard-Cambridge, 1863)

Material (Fig. 84): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 8 ♂, 5 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 21 ♂, 16 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 6.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, 4 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 3 ♂, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov.

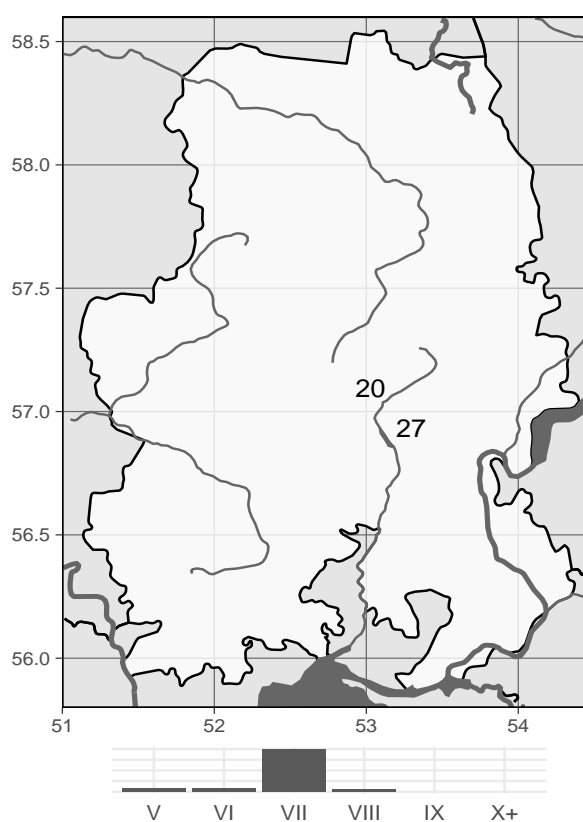
Biotope preferences: IV – *Pinus* forests (19 %), III – Upland coniferous forests (17 %), II – Woodlands (13 %), I

– All the habitats (6 %), III – Upland *Tilia* forests (2 %).

Associated species. Quantitative: *Palliduphantes alutacius* (0.27), *Agroeca proxima* (0.25), *Agroeca brunnea* (0.25), *Zelotes clivicola* (0.20), *Trochosa terricola* (0.18). **Qualitative:** *Walckenaeria cucullata* (0.40), *Tibioplus diversus* (0.33), *Robertus lividus* (0.31), *Zelotes clivicola* (0.30), *Zora nemoralis* (0.29).

Stratum: litter, moss.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Fig. 84. Distribution map and phenology of *A. conigera*

Agyneta mollis (O. Pickard-Cambridge, 1871)

Material (Fig. 85): Karakulino Distr.: Shignanda (50): 2 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

Stratum: litter.

Range: Holarctic (Circum-Holarctic)
Polyzonal.

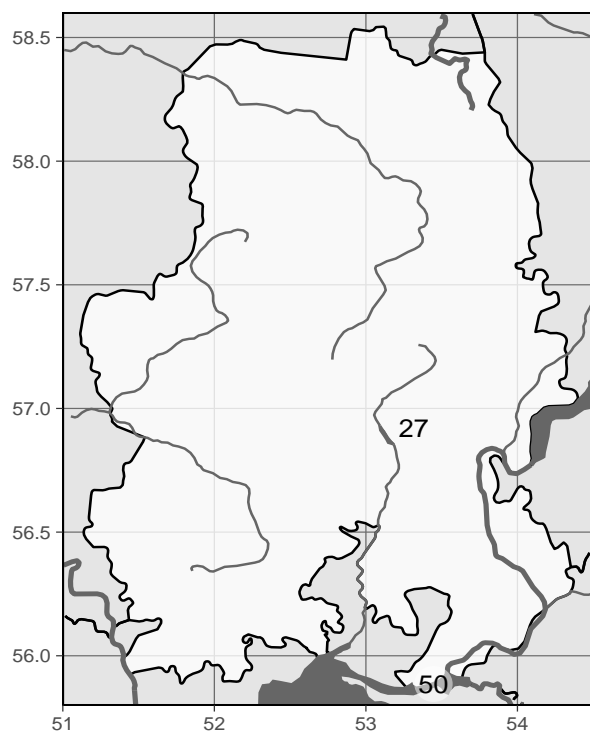


Fig. 85. Distribution map of *A. mollis*

Agyneta olivacea (Emerton, 1882)

Material: Zavyalovo Distr.: Khohryaki (27): 4 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 68 ♂, 6 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 2 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov.

Stratum: litter.

Range: Holarctic (Circum-Holarctic)
Boreal-mountain.

Agyneta ramosa Jackson, 1912

Material (Fig. 86): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Euro-Siberian (European-WestSiberian) Boreal.

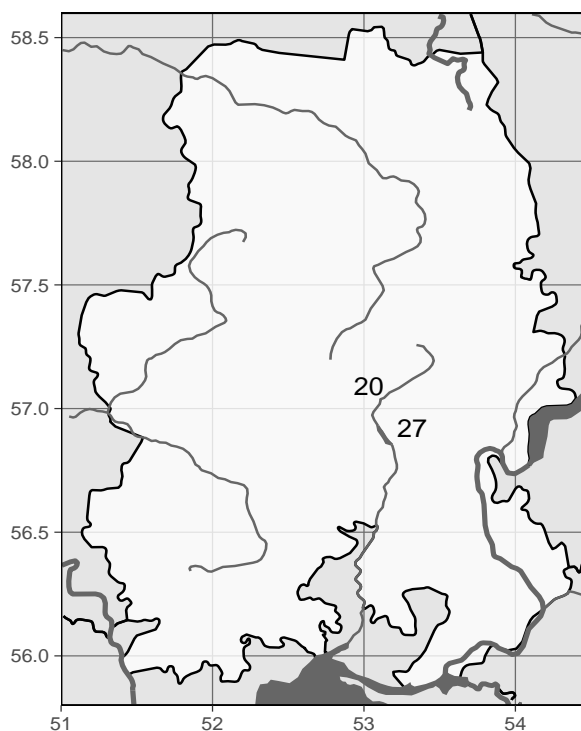


Fig. 86. Distribution map of *A. ramosa*

Agyneta rurestris (C. L. Koch, 1836)

Material (Fig. 87): Igra Distr.: Chutyr (13): 1 ♂, edge of mixed forest, 16.VII.2011, leg. E.S. Shirobokova; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 24.VII.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Palaearctic (West-Palaearctic)
Polyzonal.

Agyneta saaristoi Tanasevitch, 2000

Material (Fig. 88): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 2 ♂, 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov.

Associated species. Qualitative:
Agyneta cauta (0.25), *Parasteatoda*

simulans (0.25), *Steatoda albomaculata* (0.25), *Attulus saltator* (0.22), *Cicurina cicur* (0.22).

Stratum: litter.

Range: Ancient Mediterranean (EastEuropean-CentralAsian) Subboreal.

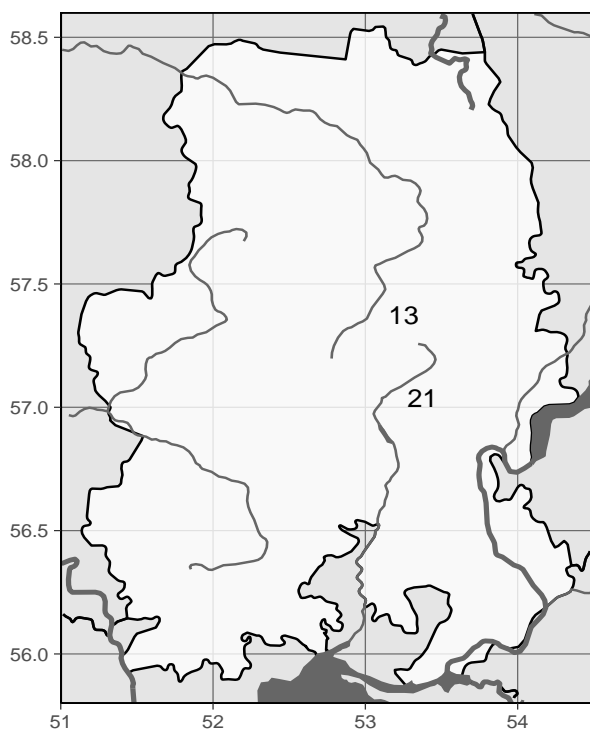


Fig. 87. Distribution map of *A. rurestris*

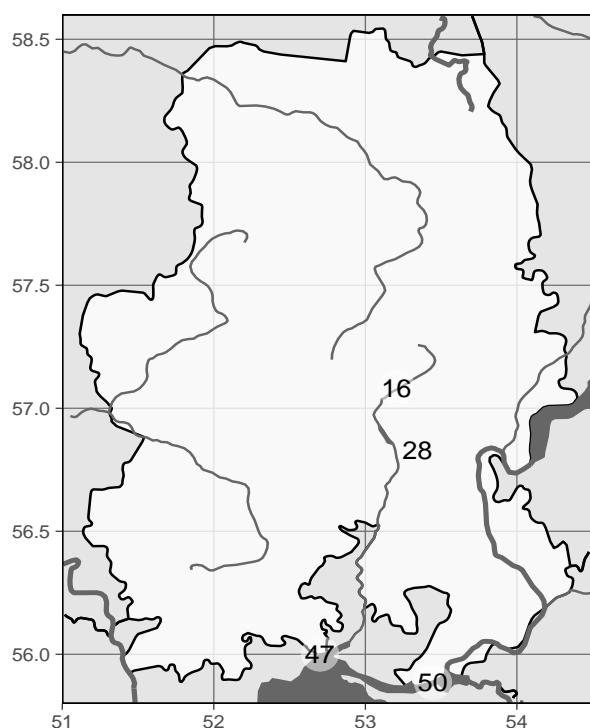


Fig. 88. Distribution map of *A. saaristoi*

Agyneta subtilis (O. Pickard-Cambridge, 1863)

Material (Fig. 89): Alnashy Distr.: Staryi Utchan (**45**): 1 ♂, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Golushurma (**47**): 2 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♂, 2 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 29 ♂, 5 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 17 ♂, 4 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 9 ♂, 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 6 ♂, 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 31 ♂, 3 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 21 ♂, 10 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (**21**): 2 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (**27**): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland coniferous forests (29 %), IV – *Pinus* forests (28 %), IV – Edges of mixed forests (16 %), II – Woodlands (15 %), I – All the habitats (7 %).

Associated species. Quantitative: *Haplodrassus soerenseni* (0.60), *Xerolycosa nemoralis* (0.44), *Zelotes clivicola* (0.35), *Zora nemoralis* (0.30), *Alopecosa aculeata* (0.29). **Qualitative:** *Xysticus luctuosus* (0.54), *Minyriolus pusillus* (0.50), *Macrargus carpenteri* (0.48), *Zelotes clivicola* (0.45), *Haplodrassus soerenseni* (0.44).

Stratum: litter, moss.

Range: Palaearctic (West-Palaearctic) Temperate.

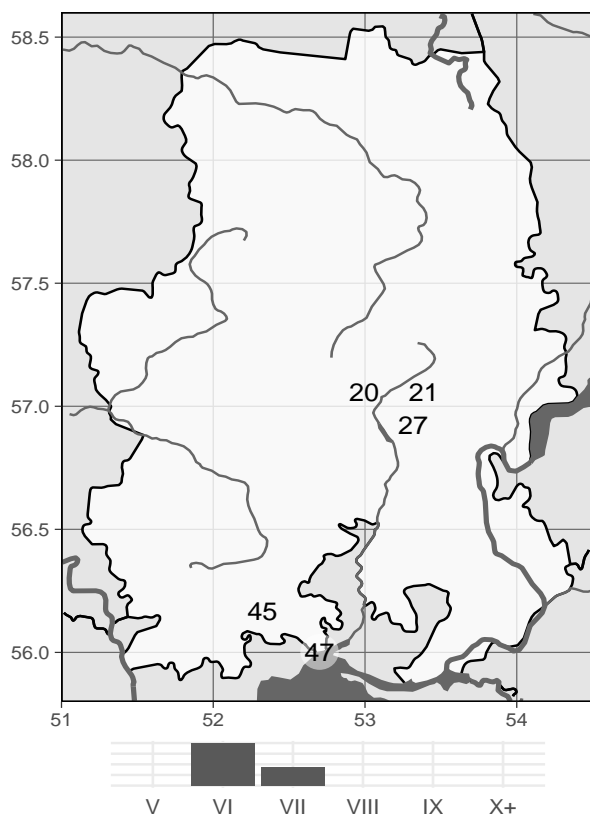


Fig. 89. Distribution map and phenology of *A. subtilis*

***Allomengea scopigera* (Grube, 1859)**

Material (Fig. 90): Izhevsk (24): 2 ♂, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 3 ♂, 8 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 10 ♂, 4 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 4 ♂, 4 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 4 ♂, 4 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 3 ♂, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 3 ♂, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova.

Biotope preferences: IV – Floodplain *Quercus* forests (27 %), III – Floodplain deciduous forests (13 %), II – Woodlands (9 %), I – All the habitats (5 %), III – Upland *Tilia* forests (3 %).

Associated species. Quantitative: *Tenuiphantes nigriventris* (0.29), *Tenuiphantes menzei* (0.28), *Tenuiphantes tenebricola* (0.25), *Megalephyphantes pseudocollinus* (0.13), *Linyphia triangularis* (0.13). **Qualitative:** *Tapinopa longidens* (0.40), *Agroeca proxima* (0.37), *Tenuiphantes tenebricola* (0.37), *Megalephyphantes pseudocollinus* (0.36), *Tenuiphantes nigriventris* (0.26).

Stratum: ground, litter.

Range: Holarctic (Circum-Holarctic) Boreal-mountain.

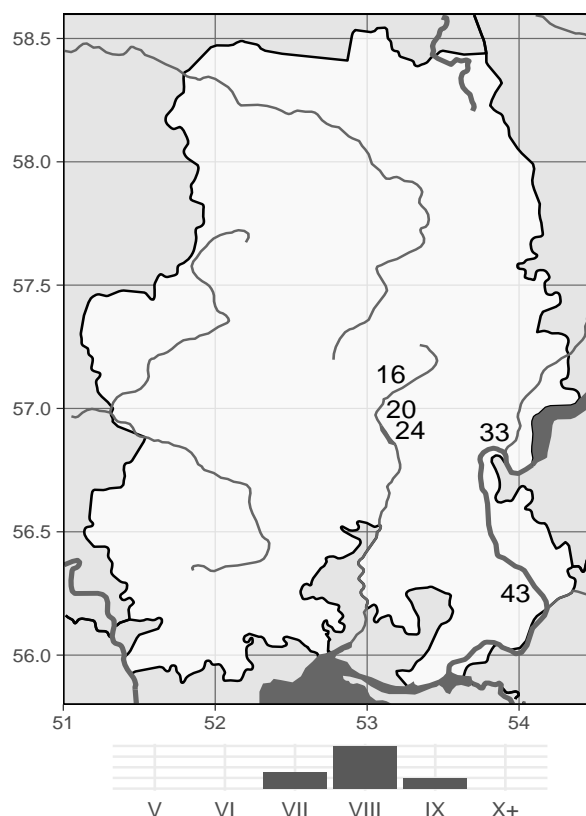


Fig. 90. Distribution map and phenology of *A. scopigera*

***Allomengea vidua* (L. Koch, 1879)**

Material (Fig. 91): Igra Distr.: Chutyr (13): 1 ♂, bottomland meadow, 20.VIII.2011, leg. E.S. Shirobokova;

1 ♂, open river bank, 3.IX.2011, leg. E.S. Shirobokova; 2 ♂, open river bank, 12.VIII.2012, leg. E.S. Shirobokova; 2 ♂, open river bank, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, open river bank, 1.IX.2012, leg. E.S. Shirobokova; 1 ♀, open river bank, 28.IX.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 2 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova.

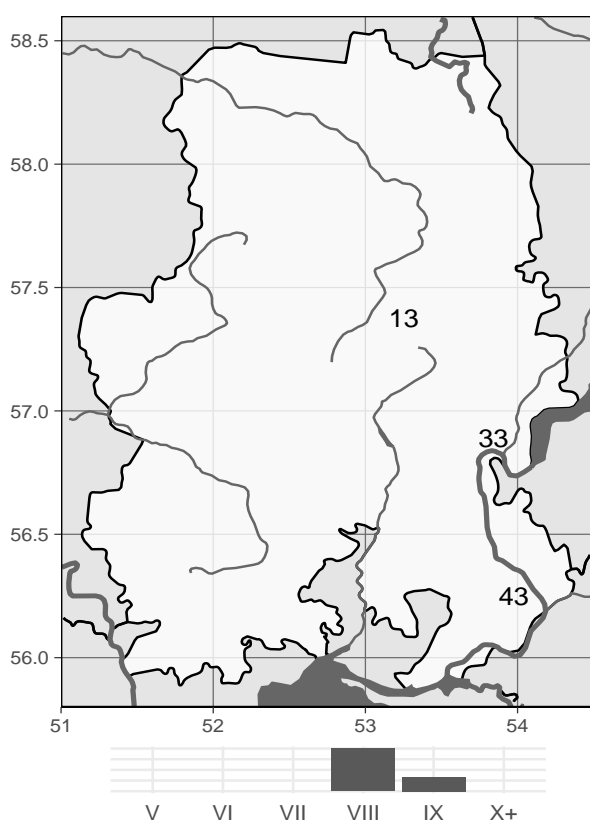


Fig. 91. Distribution map and phenology of *A. vidua*

Associated species. Quantitative: *Xysticus audax* (0.10), *Centromerita bicolor* (0.09), *Arctosa stigmata* (0.09), *Tenuiphantes nigriventris* (0.08), *Pachygnatha clercki* (0.08). **Qualitative:** *Centromerita bicolor* (0.15), *Xysticus audax* (0.14), *Arctosa stigmata* (0.13), *Pardosa maisa* (0.13), *Dendryphantus rudis* (0.12).

Stratum: litter, herb.

Range: Holarctic (Circum-Holarctic) Temperate.

Anguliphantes angulipalpis (Westring, 1851)

Material (Fig. 92): Alnashy Distr.: Golushurma (47): 2 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 2 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, edge of coniferous forest, 8.VII.2014, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, *Quercus-Tilia* forest, 4.VII.2016, leg. S.V. Dedyukhin; 2 ♀, floodplain *Quercus* forest, 6.VII.2016, leg. S.V. Dedyukhin; 1 ♀, *Quercus-Populus* forest, 7.VII.2016, leg. S.V. Dedyukhin; 1 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♂, 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 4 ♂, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 14 ♂, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 8 ♂, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 6 ♂, 2 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A.

Shirobokova; 2 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 24.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 2 ♂, 2 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

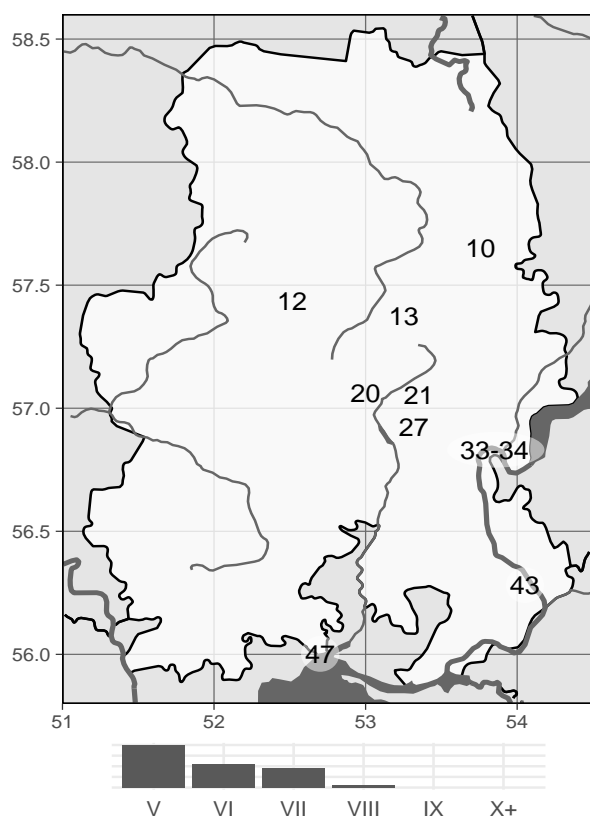


Fig. 92. Distribution map and phenology of *A. angulipalpis*

Biotope preferences: II – Woodlands (31 %), IV – *Pinus* forests (24 %), III – Upland coniferous forests (24 %), I – All the habitats (16 %), III – Upland mixed forests (4 %).

Associated species. Quantitative: *Walckenaeria alticeps* (0.35), *Macrargus rufus* (0.34), *Tapinocyba biscissa* (0.33), *Ceratinella brevis* (0.27), *Agroeca brunnea* (0.27). **Qualitative:** *Hahnia ononidum* (0.45), *Zelotes clivicola* (0.41), *Zelotes subterraneus* (0.41), *Tapinocyba biscissa* (0.39), *Walckenaeria alticeps* (0.38).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Araeoncus crassiceps (Westring, 1861)

Material: Igra Distr.: Chutyr (13): 1 ♀, bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (European-MiddleSiberian) Temperate.

Asthenargus paganus (Simon, 1884)

Material (Fig. 93): Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: 25-km Yakshur-Bodyinskiy trakt (18): 1 ♀, *Pinus* forest, 15.IX.2009, leg. A.N. Sozontov.

Stratum: litter, moss.

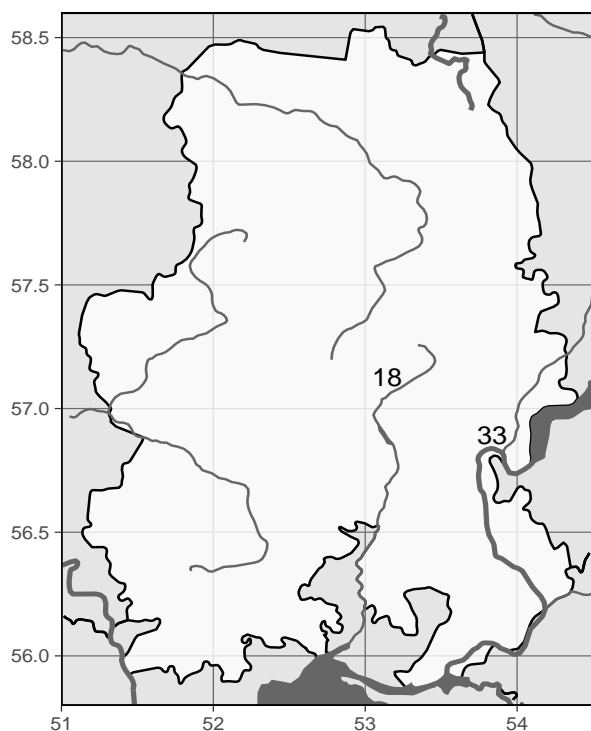
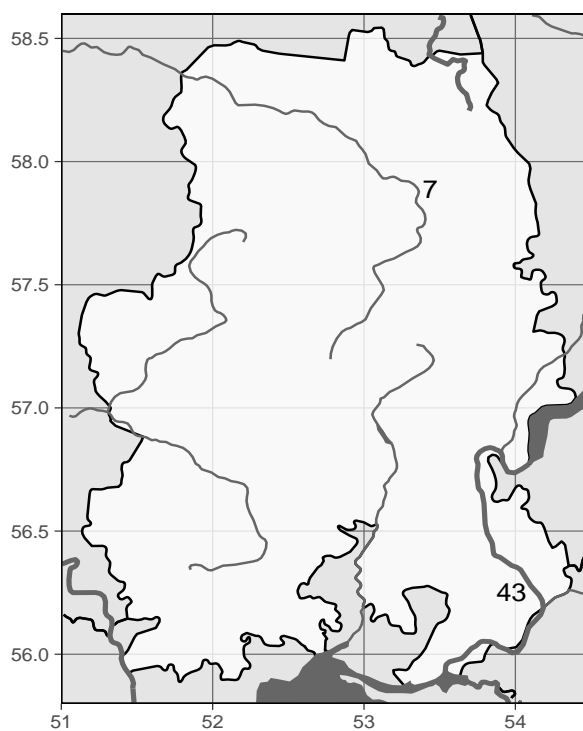
Range: Euro-Siberian (European-WestSiberian) Temperate.

Baryphyma trifrons (O. Pickard-Cambridge, 1863)

Material: Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Temperate.

Fig. 93. Distribution map of *A. paganus*Fig. 94. Distribution map of *B. approximatus*

Bathyphantes approximatus (O. Pickard-Cambridge, 1871)

Material (Fig. 94): Kez Distr.: Cheptsa (7): 1 ♀, watershed mixed forest, 13.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin.

Stratum: litter, herb.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Bathyphantes gracilis (Blackwall, 1841)

Material (Fig. 95): Igra Distr.: Novye Zyatci (12): 2 ♂, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; 2 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 1 ♂, watershed mixed forest, 13.VII.2008, leg. A.V. Ilyina; Sharkan Distr.: Sharkan (22): 2 ♂, 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 40 ♂,

8 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 39 ♂, 12 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♀, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Agyneta olivacea* (0.60), *Walckenaeria atrotibialis* (0.56), *Diplocephalus picinus* (0.52), *Diplostyla concolor* (0.51), *Ozyptila trux* (0.42). **Qualitative:** *Agyneta olivacea* (0.50), *Bathyphantes nigrinus* (0.50), *Walckenaeria atrotibialis* (0.38), *Episinus truncatus* (0.35), *Diplocephalus picinus* (0.35).

Stratum: litter, moss.

Range: Holarctic (Circum-Holarctic) Polyzonal.

Bathyphantes nigrinus (Westring, 1851)

Material (Fig. 96): Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 11.VI.2017,

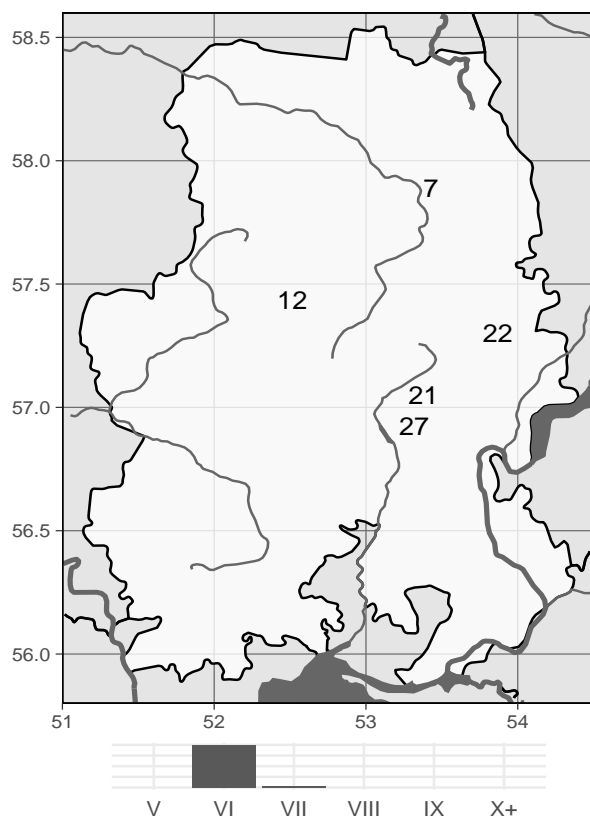


Fig. 95. Distribution map and phenology of *B. gracilis*

leg. K.S. Tatarkin; 2 ♂, 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 11 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♀, wooded raised bog, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 4 ♂, 5 ♀, 1 subadult ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 4 ♂, 9 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♂, 6 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♂, 2 ♀, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (28 %), IV – *Tilia* forests (21 %), IV – Wooded raised bogs (13 %), I – All the habitats (5 %), IV – *Abies-Picea* forests (4 %).

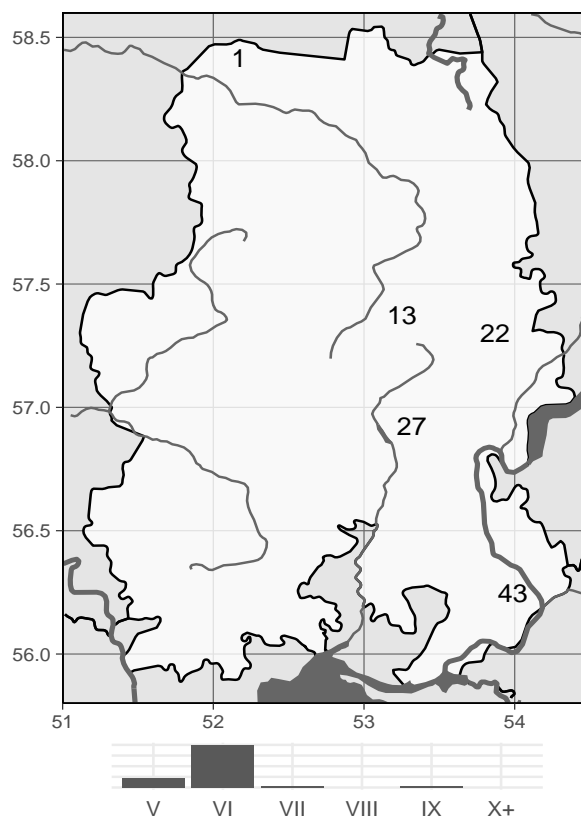


Fig. 96. Distribution map and phenology of *B. nirginus*

Associated species. Quantitative: *Ozyptila claveata* (0.34), *Ozyptila trux* (0.32), *Gongylidium rufipes* (0.27), *Agyneta olivacea* (0.24), *Diplocephalus picinus* (0.22). **Qualitative:** *Bathypantes gracilis* (0.50), *Agyneta olivacea* (0.43), *Gongylidium rufipes* (0.36), *Oedothorax gibbosus* (0.35), *Ozyptila trux* (0.35).

Stratum: litter, herb.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Bathypantes parvulus (Westring, 1851)

Material (Fig. 97): Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova.

Stratum: litter, moss.

Range: Palaearctic (Trans-Palaearctic)
Temperate.

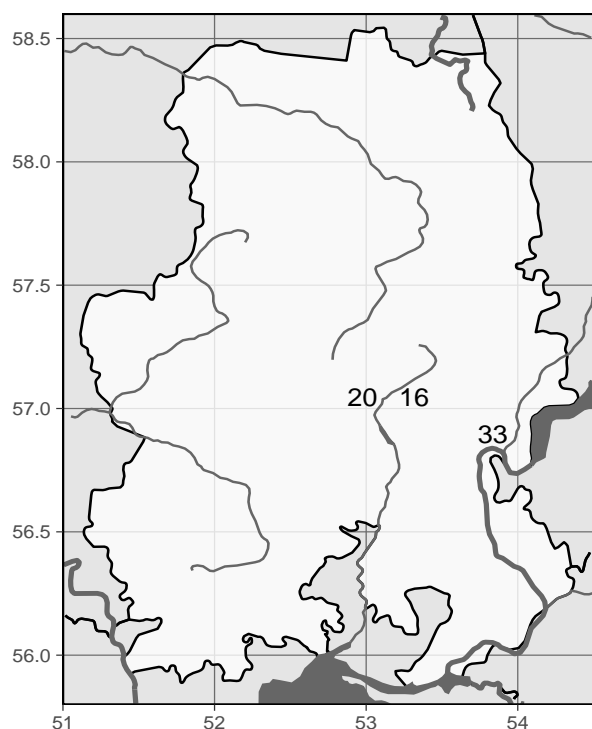


Fig. 97. Distribution map of *B. parvulus*

Bolyphantes alticeps (Sundevall, 1833)

Material (Fig. 98): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, *Abies-Picea* forest, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 28.IX.2012, leg. E.S. Shirobokova; 3 ♀, upland meadow, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 subadult ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 6 ♂, 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 subadult ♂, *Abies-Picea* forest, 27.VI.2012, leg.

A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♂, watershed mixed forest, 21.VIII.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 25.VII.2012, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov; Golyany Zakamye (31): 2 ♀, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: IV – *Abies-Picea* forests (18 %), I – All the habitats (7 %), II – Meadowlands (5 %), III – Upland *Tilia* forests (4 %), II – Woodlands (4 %).

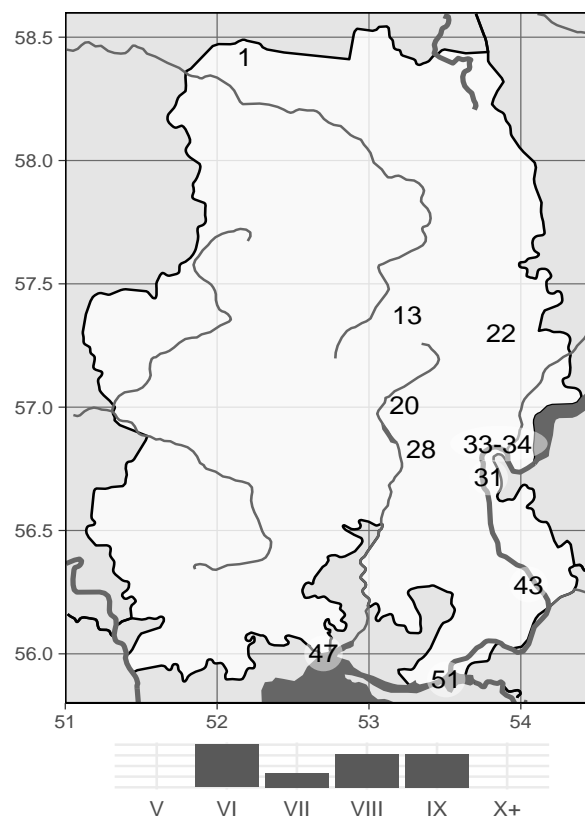


Fig. 98. Distribution map and phenology of *B. alticeps*

Associated species. Quantitative: *Agroeca lusatica* (0.29), *Centromerus sylvaticus* (0.26), *Zelotes azsheganovae* (0.21), *Drapetisca socialis* (0.17), *Centromerita bicolor* (0.16). **Qualitative:** *Helophora insignis* (0.33), *Centromerus sylvaticus* (0.25), *Drapetisca socialis* (0.24), *Megalepthyphantes pseudocollinus* (0.21), *Tenuiphantes mengei* (0.20).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Centromerita bicolor (Blackwall, 1833)

Material (Fig. 99): Igra Distr.: Chutyr (13): 1 ♀, *Alnus* groves, 8.IX.2012, leg. E.S. Shirobokova; 3 ♂, 2 ♀, bottomland meadow, 28.IX.2012, leg. E.S. Shirobokova; 1 ♀, Unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 28.IX.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative: *Bolyphantes alticeps* (0.16), *Centromerus sylvaticus* (0.14), *Araneus sturmi* (0.11), *Metellina mengei* (0.11), *Xysticus audax* (0.11). **Qualitative:** *Troxochrus scabriculus* (0.22), *Metellina mengei* (0.20), *Erigone dentipalpis* (0.18), *Xysticus audax* (0.18), *Bolyphantes alticeps* (0.17).

Stratum: litter, moss.

Range: Euro-Siberian (European) Temperate.

Centromerus arcanus (O. Pickard-Cambridge, 1873)

Material (Fig. 100): Yakshur-Bodya Distr.: Selychka (16): 2 ♂, 4 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018,

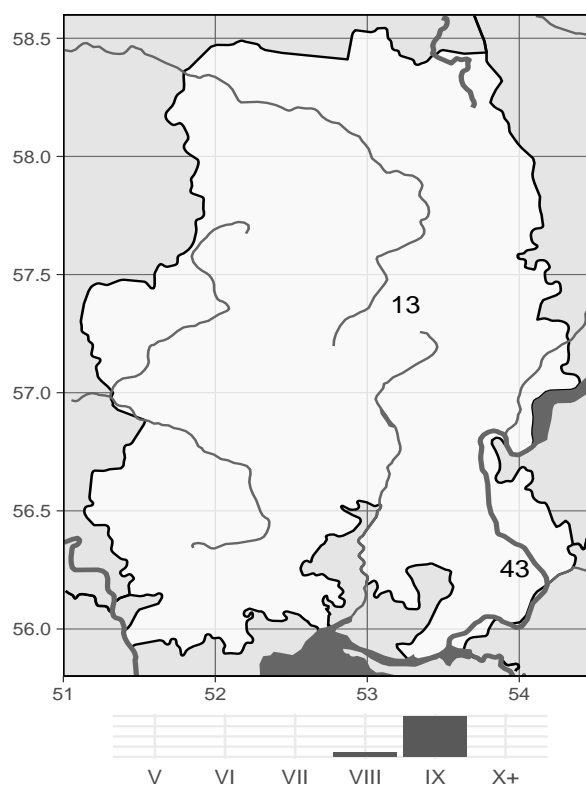


Fig. 99. Distribution map and phenology of *C. bicolor*

leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 4 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Ceratinella brevipes* (0.30), *Lathys heterophthalma* (0.25), *Robertus lividus* (0.25), *Minyriolus pusillus* (0.22), *Tapinocyba biscissa* (0.21). **Qualitative:** *Tapinocyba biscissa* (0.42), *Centromerus brevipalpus* (0.38), *Centromerus incilium* (0.35), *Hahnina pusilla* (0.29), *Agyneta subtilis* (0.27).

Stratum: litter, moss.

Range: Holarctic (Greenland-West Siberian) Polyzoal.

Centromerus brevipalpus (Menge, 1866)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A.

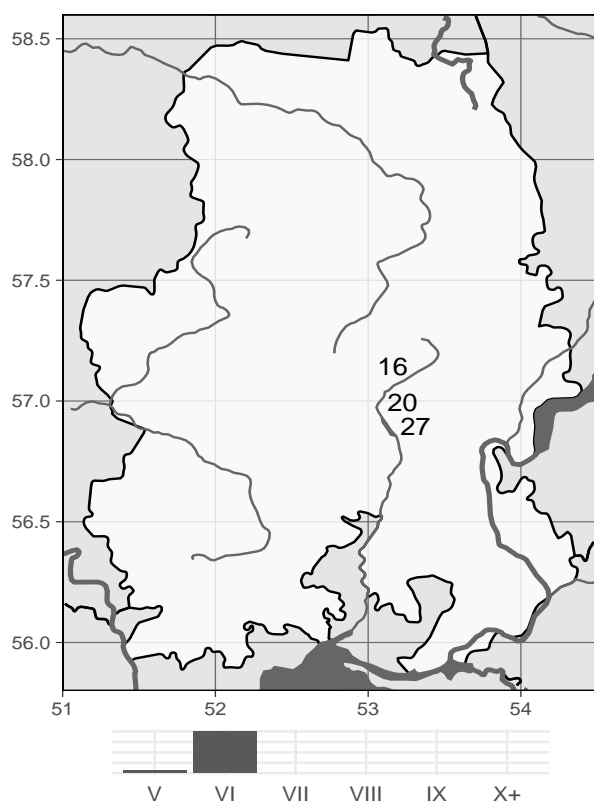


Fig. 100. Distribution map and phenology of *C. arcanus*

Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Tibioplus diversus* (0.45), *Tapinocyba biscissa* (0.43), *Walckenaeria cucullata* (0.38), *Thyreosthenius parasiticus* (0.35), *Centromerus clarus* (0.32). **Qualitative:** *Tapinocyba biscissa* (0.48), *Tibioplus diversus* (0.40), *Centromerus arcanus* (0.38), *Walckenaeria cucullata* (0.37), *Agroeca brunnea* (0.36).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Centromerus clarus (L. Koch, 1879)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 5 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Centromerus incilium* (0.51), *Thyreosthenius parasiticus* (0.50), *Troxochrota scabra* (0.35), *Centromerus brevipalpus* (0.32), *Tibioplus diversus* (0.32). **Qualitative:** *Diplocephalus latifrons* (0.53), *Centromerus incilium* (0.50), *Troxochrota scabra* (0.40), *Macrargus rufus* (0.38), *Tapinocyba biscissa* (0.33).

Stratum: litter, moss.

Range: Euro-Siberian (Trans-Siberian) Boreal.

Centromerus incilium (L. Koch, 1881)

Material (Fig. 101): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, 5 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Biotope preferences: IV – *Pinus* forests (32 %), III – Upland coniferous forests (29 %), II – Woodlands (11 %), I – All the habitats (5 %).

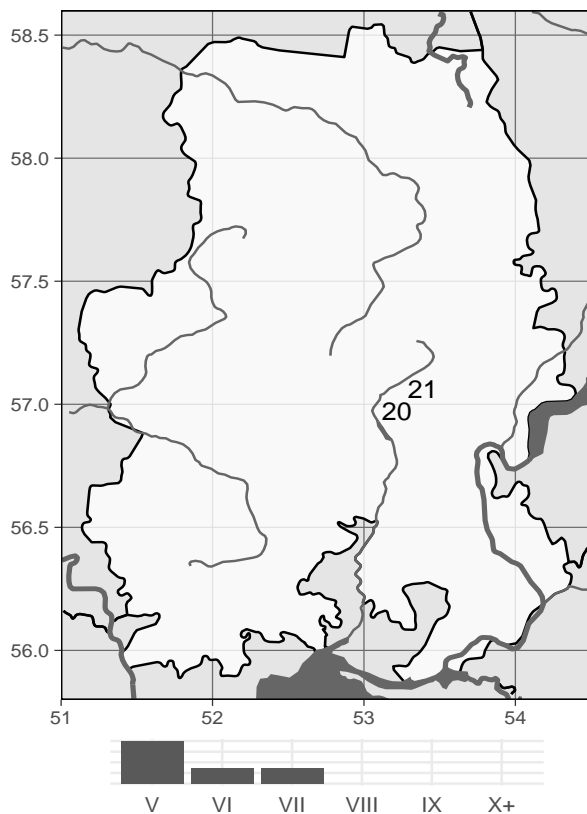


Fig. 101. Distribution map and phenology of *C. incilium*

Associated species. Quantitative: *Centromerus clarus* (0.51), *Tapinocyba biscissa* (0.47), *Thyreosthenius parasiticus* (0.42), *Diplocephalus latifrons* (0.38), *Walckenaeria cucullata* (0.38). **Qualitative:** *Tapinocyba biscissa* (0.64), *Centromerus clarus* (0.50), *Macrargus rufus* (0.50), *Diplocephalus latifrons* (0.42), *Macrargus carpenteri* (0.40).

Stratum: litter, moss.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Centromerus sylvaticus (Blackwall, 1841)

Material (Fig. 102): Igra Distr.: Chutyr (13): 1 ♀, edge of mixed forest, 27.VIII.2012, leg. E.S. Shirobokova; 2 ♂, *Alnus* groves, 28.IX.2012, leg. E.S. Shirobokova; 5 ♂, 1 ♀, bottomland meadow, 28.IX.2012, leg. E.S. Shirobokova; 1 ♂, open river bank, 28.IX.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, Heated dwellings, 25.VIII.2013,

leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 8 ♂, 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 10 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♂, Unheated indoor spaces, 30.IX.2015, leg. A.N. Sozontov; Selychka (16): 1 ♂, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 4 ♀, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 6 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova.

Biotope preferences: I – All the habitats (9 %), IV – Edges of mixed forests (7 %), III – Upland *Tilia* forests (5 %), III – Indoor spaces (5 %), II – Woodlands (4 %).

Associated species. Quantitative: *Bolyphantes alticeps* (0.26), *Zelotes azshaganovae* (0.24), *Haplodrassus signifer* (0.20), *Ozyptila claveata* (0.20), *Agroeca lusatica* (0.18). **Qualitative:** *Robertus lividus* (0.29), *Tenuiphantes tenebricola* (0.27), *Tapinopa longidens* (0.26), *Bolyphantes alticeps* (0.25), *Trochosa terricola* (0.25).

Stratum: litter, moss.

Range: Holarctic (Circum-Holarctic) Polyzoal.

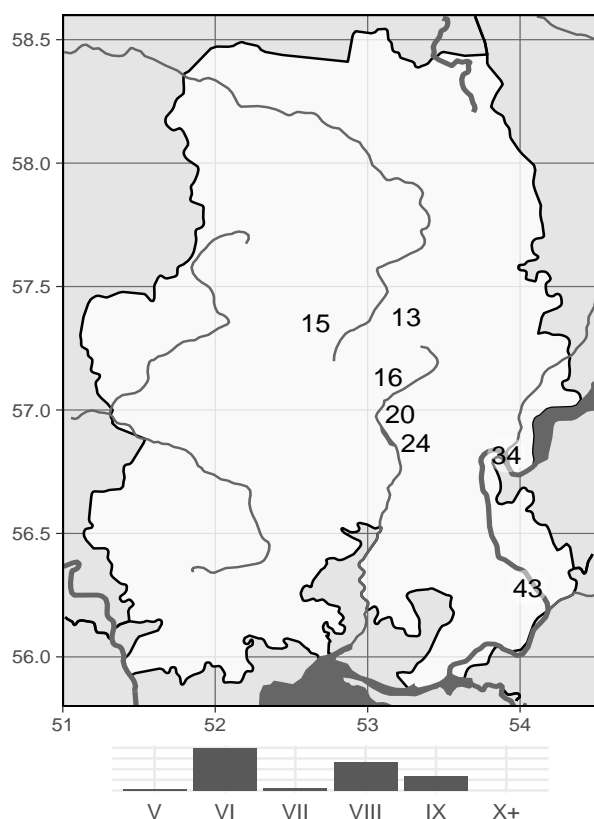


Fig. 102. Distribution map and phenology of *C. sylvaticus*

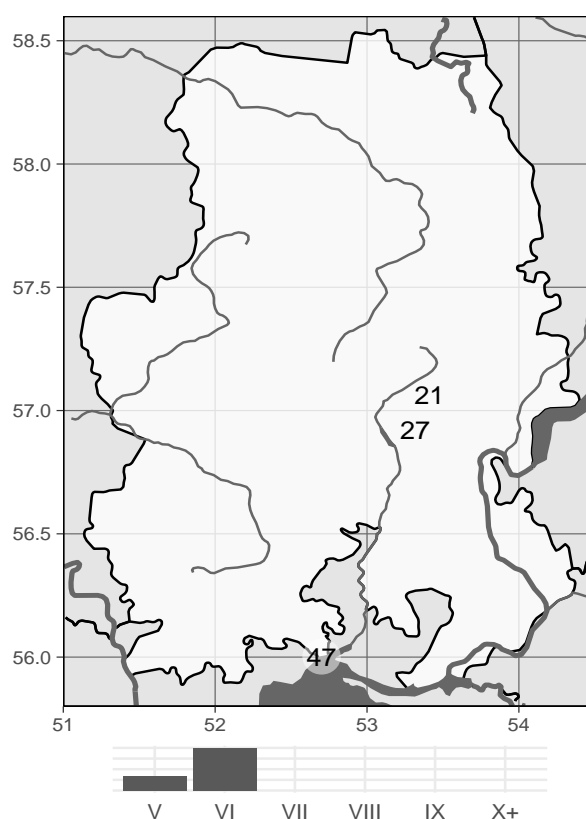


Fig. 103. Distribution map and phenology of *C. brevipes*

Ceratinella brevipes (Westring, 1851)

Material (Fig. 103): Alnashy Distr.:

Golushurma (47): 1 ♂, 2 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 2 ♂, 2 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 2 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative:

Centromerus arcanus (0.30), *Agyneta saaristoi* (0.19), *Clubiona lutescens* (0.18), *Robertus lividus* (0.17), *Tapinocyba insecta* (0.17). **Qualitative:** *Agyneta olivacea* (0.50), *Diplocephalus picinus* (0.32), *Agyneta subtilis* (0.30), *Bathypantes gracilis* (0.29), *Bathypantes nigrinus* (0.25).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Ceratinella brevis (Wider, 1834)

Material (Fig. 104): Alnashy Distr.:

Golushurma (47): 3 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♂, 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, edge of coniferous forest, 4.VI.2015, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 4.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; 2 ♀, edge of coniferous forest, 8.VII.2014, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 31.V.2016,

leg. A.V. Uskova; 1 ♀, *Quercus-Tilia* forest, 4.VII.2016, leg. S.V. Dedyukhin; 2 ♀, floodplain *Quercus* forest, 6.VII.2016, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 2 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

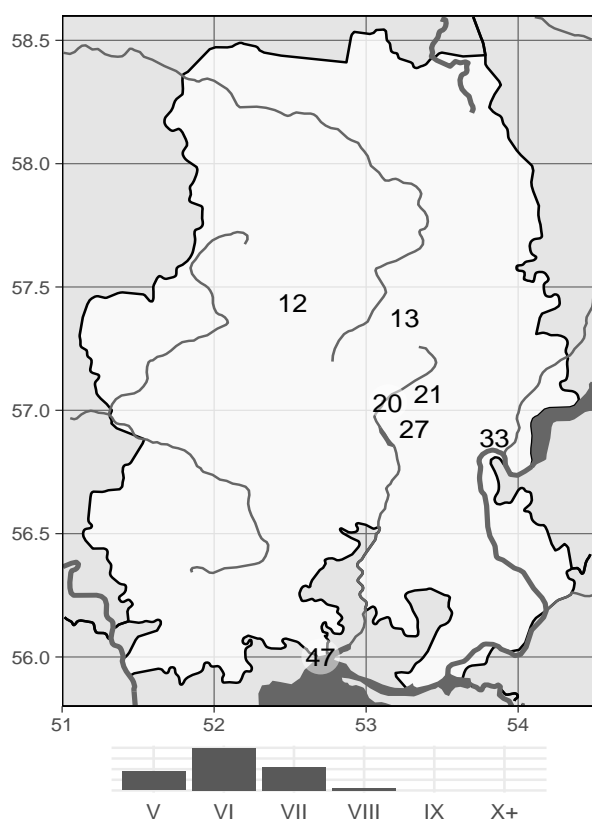


Fig. 104. Distribution map and phenology of *C. brevis*

Biotope preferences: IV – *Abies-Picea* forests (16 %), II – Woodlands (14 %), I – All the habitats (10 %), IV – Floodplain broadleaved forests (9 %), III – Floodplain deciduous forests (8 %).

Associated species. Quantitative: *Walckenaeria alticeps* (0.29), *Anguliphantes angulipalpis* (0.27), *Agroeca brunnea* (0.16), *Microneta viaria* (0.15), *Robertus lividus* (0.15). **Qualitative:** *Anguliphantes angulipalpis* (0.36), *Hahnia ononidum* (0.30), *Microneta viaria* (0.30), *Hahnia pusilla* (0.29), *Agroeca brunnea* (0.24).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Cnephalocotes obscurus (Blackwall, 1834)

Material (Fig. 105): Igra Distr.: Novye Zyatci (12): 1 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Malyashi (53): 1 ♂, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Associated species. Qualitative: *Macrargus carpenteri* (0.59), *Walckenaeria cucullata* (0.40), *Glypesis nemoralis* (0.36), *Troxochrota scabra* (0.36), *Walckenaeria atrotibialis* (0.33).

Stratum: litter, herb.

Range: Holarctic (Circum-Holarctic) Temperate

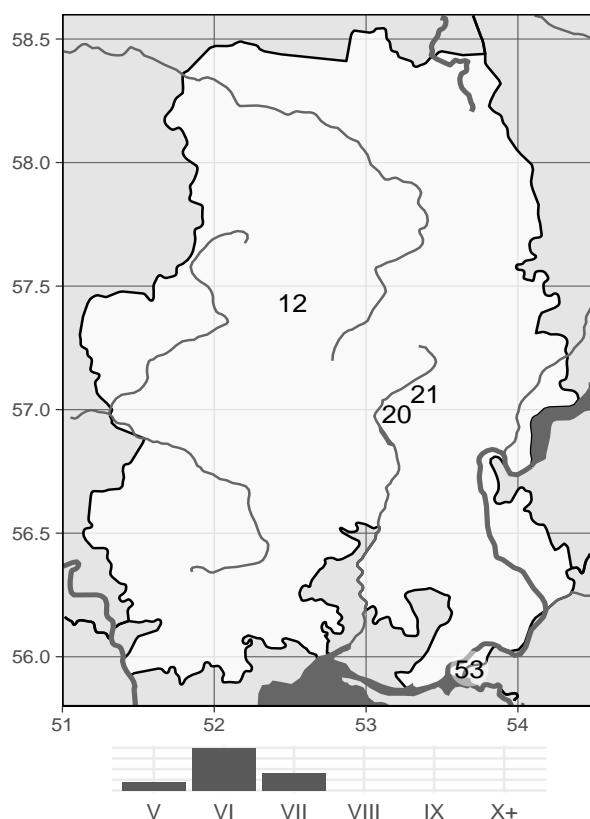


Fig. 105. Distribution map and phenology of *C. obscurus*

***Diplocephalus connatus* Bertkau, 1889**

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (European-Middle Siberian) Temperate.

***Diplocephalus dentatus* Tullgren, 1955**

Material: Igra Distr.: Novye Zyatci (12): 4 ♂, 2 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

***Diplocephalus latifrons* (O. Pickard-Cambridge, 1863)**

Material (Fig. 106): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest,

21.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Acantholycosa lignaria* (0.40), *Centromerus incilium* (0.38), *Zora nemoralis* (0.35), *Xysticus luctuosus* (0.32), *Robertus lividus* (0.29). **Qualitative:** *Centromerus clarus* (0.53), *Macrargus rufus* (0.53), *Centromerus incilium* (0.42), *Macrargus carpenteri* (0.42), *Agyneta subtilis* (0.42).

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

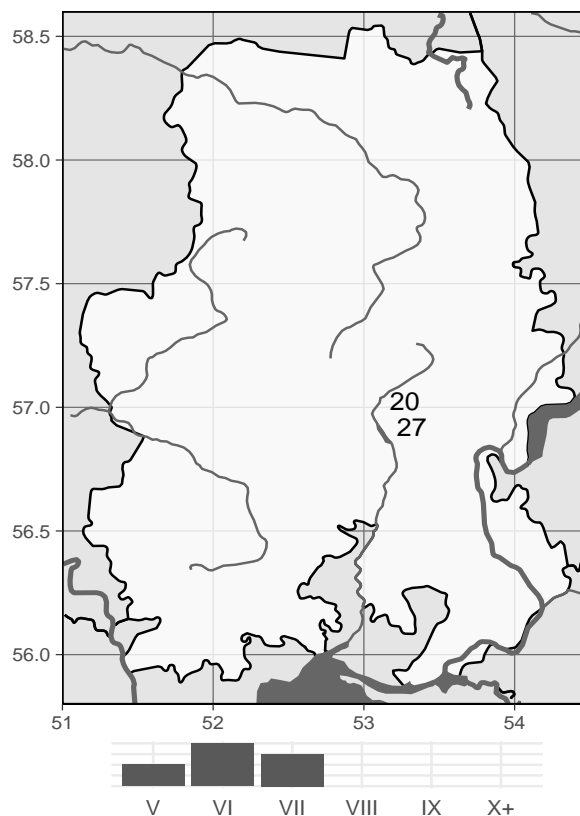


Fig. 106. Distribution map and phenology of *D. latifrons*

***Diplocephalus picinus* (Blackwall, 1841)**

Material (Fig. 107): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 6 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 4 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 4 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♂, 8 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 30 ♂, 2 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 12 ♂, 3 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (19 %), IV – *Tilia* forests (17 %), II – Woodlands (10 %), III – Upland mixed forests (7 %), IV – Dark coniferous forests with *Tilia* (6 %).

Associated species. Quantitative: *Walckenaeria atrotibialis* (0.55), *Bathypantes gracilis* (0.52), *Oxyptila trux* (0.35), *Diplostyla concolor* (0.32), *Euryopis flavomaculata* (0.25). **Qualitative:** *Walckenaeria atrotibialis* (0.43), *Oxyptila trux* (0.38), *Maso sundevalli* (0.36), *Bathypantes gracilis* (0.35), *Agyneta subtilis* (0.34).

Stratum: litter.

Range: Palaearctic (West-Palaearctic) Temperate.

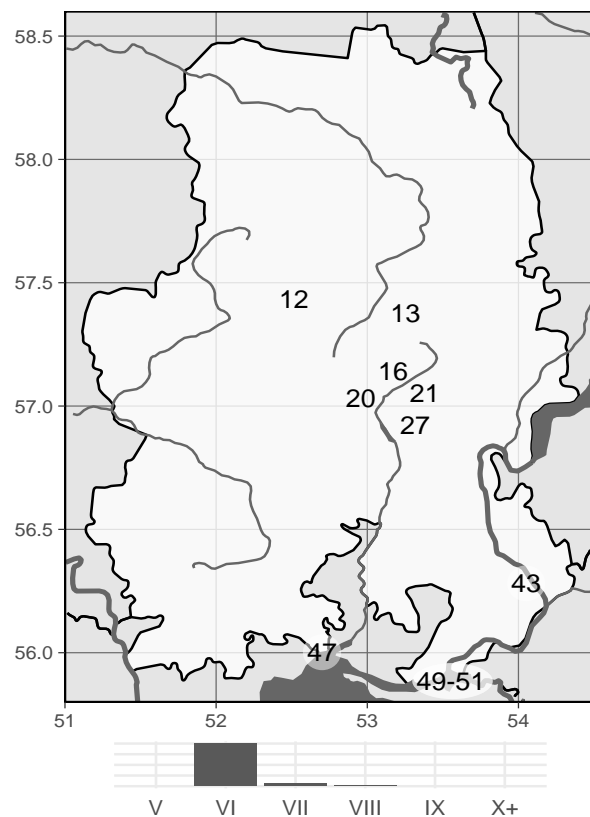


Fig. 107. Distribution map and phenology of *D. picinus*

***Diplostyla concolor* (Wider, 1834)**

Material (Fig. 108): Igra Distr.: Novye Zyatci (12): 2 ♂, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; 14 ♂, 10 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, 2 ♀, open river bank, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 14.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 14.VII.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 29.VII.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 8.IX.2012, leg.

E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 28.IX.2012, leg. E.S. Shirobokova; 1 subadult ♂, edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 28.IX.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, agrocoenosis, 15.IX.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 2 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 3 ♂, 2 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 3 ♂, 3 ♀, watershed mixed forest, 13.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (43): 1 ♂, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 2 ♂, 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♂, 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 11 ♂, 6 ♀, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 3 ♂, 4 ♀, 1 subadult ♂, 2 juv., *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♀, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, 2 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; 2 ♂, 2 ♀, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus*

forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♂, 7 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♂, 3 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 5 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 5 ♀, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 5 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 25 ♂, 6 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 33 ♂, 15 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 3 ♂, 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 2 ♂, 2 ♀, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (45 %), IV – *Tilia* forests (38 %), II – Woodlands (26 %), I – All the habitats (22 %), III – Upland mixed forests (8 %).

Associated species. Quantitative: *Bathypantes gracilis* (0.51), *Walckenaeria atrotibialis* (0.38), *Agyneta olivacea* (0.33), *Diplocephalus picinus* (0.32), *Ozyptila trux* (0.28). **Qualitative:** *Palliduphantes alutacius* (0.42), *Tenuiphantes tenebricola* (0.36), *Robertus lividus* (0.36), *Zelotes subterraneus* (0.32), *Ozyptila praticola* (0.32).

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

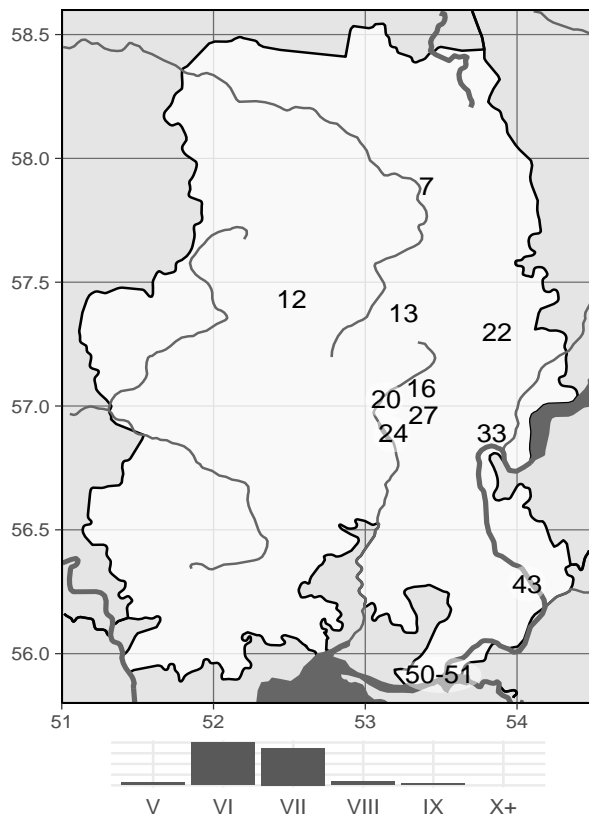


Fig. 108. Distribution map and phenology of *D. concolor*

Dismodicus bifrons (Blackwall, 1841)

Material (Fig. 109): Sarapul Distr.: Nechkino Zakamy (40): 1 ♂, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 7.VII.2016, leg. A.V. Uskova; 2 ♂, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashева; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Argenna subnigra* (0.30), *Thanatus striatus* (0.24), *Hypsosinga pygmaea* (0.20), *Bathyphantes parvulus* (0.13), *Nerienne*

peltata (0.12). **Qualitative:** *Thanatus striatus* (0.29), *Hypsosinga pygmaea* (0.23), *Agyneta olivacea* (0.20), *Argenna subnigra* (0.19), *Bathyphantes parvulus* (0.18).

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

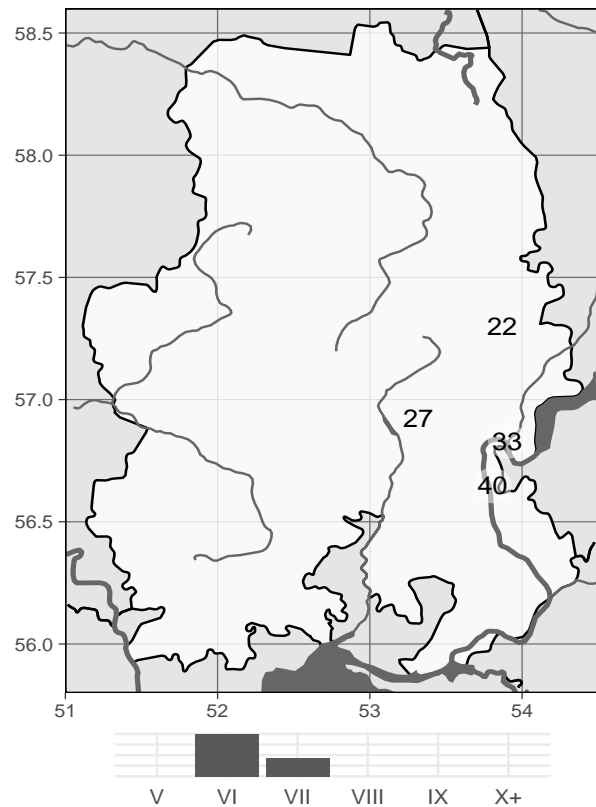


Fig. 109. Distribution map and phenology of *D. bifrons*

Drapetisca socialis (Sundevall, 1833)

Material (Fig. 110): Igra Distr.: Chutyr (13): 1 ♂, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 8.IX.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, *Tilia* forest, 20.IX.2012, leg. A.N. Sozontov; 2 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.:

16-km Yakshur Bodyinskiy trakt (**19**): 1 ♀, dark coniferous forest with *Tilia*, 6.X.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Doksha (**29**): 1 ♀, faunistic record, 11.IX.2010, leg. A.N. Sozontov.

Associated species. Qualitative: *Bolyphantes alticeps* (0.24), *Tenuiphantes menzei* (0.21), *Helophora insignis* (0.16), *Mastigusa arietina* (0.15), *Talavera aequipes* (0.15).

Stratum: tree stems.

Range: Palaearctic (Trans-Palaearctic) Temperate.

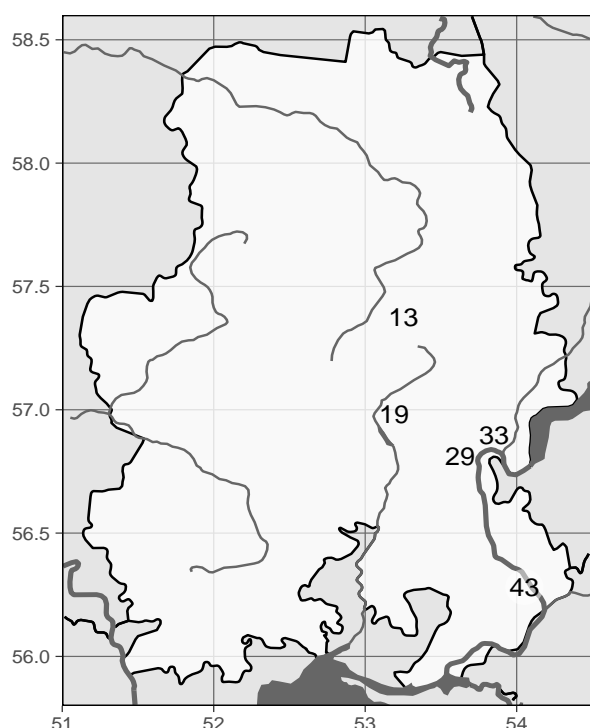


Fig. 110. Distribution map of *D. socialis*

Entelecara acuminata (Wider, 1834)

Material (Fig. 111): Alnashy Distr.: Golushurma (**47**): 1 ♂, 1 ♀, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Baygurez (**10**): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov.

Stratum: shrub, canopy.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

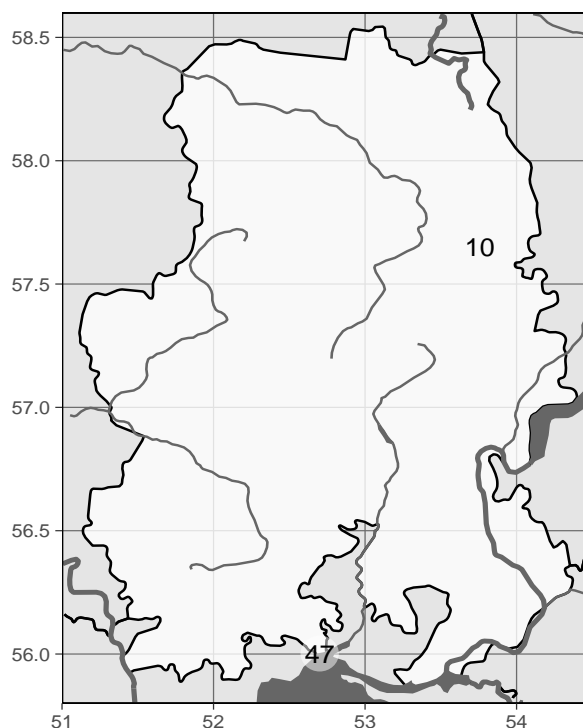


Fig. 111. Distribution map of *E. acuminata*

Entelecara congenera (O. Pickard-Cambridge, 1879)

Material: Igra Distr.: Chutyr (**13**): 1 ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (**33**): 1 ♂, upland meadow, 8.VI.2017, leg. A.N. Sozontov.

Stratum: canopy.

Range: Euro-Siberian (European-MiddleSiberian) Boreal-mountain.

Erigone atra Blackwall, 1833

Material: Karakulino Distr.: Byrgynda (**49**): 1 ♂, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina.

Stratum: ground, herb.

Range: Holarctic (Circum-Holarctic) Polyzoal.

Erigone dentipalpis (Wider, 1834)

Material (Fig. 112): Igra Distr.: Chutyr (**13**): 1 ♀, Unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (**49**): 6 ♂, 1 ♀, agrocoenosis, 27.VI.2017, leg. A.N.

Izhboldina; Kez Distr.: Cheptsa (7): 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Tegenaria domestica* (0.18), *Neoscona adianta* (0.17), *Oedothorax gibbosus* (0.17), *Pachygnatha clercki* (0.15), *Araneus angulatus* (0.15). **Qualitative:** *Neoscona adianta* (0.33), *Oedothorax gibbosus* (0.33), *Pachygnatha clercki* (0.27), *Leviellus stroemi* (0.25), *Bathyphantes nigrinus* (0.24).

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

Erigonella hiemalis (Blackwall, 1841)

Material (Fig. 113): Debesy Distr.: Baygurez (10): 1 ♂, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, *Abies-Picea* forest, 29.V.2011, leg. E.S. Shirobokova; 2 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Stratum: litter, herb.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Erigonella ignobilis (O. Pickard-Cambridge, 1871)

Material (Fig. 114): Glazov Distr.: Lyum (4): 1 ♂, faunistic record, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova.

Stratum: litter, herb.

Range: Euro-Siberian (Trans-EuroSiberian) Boreal-mountain.

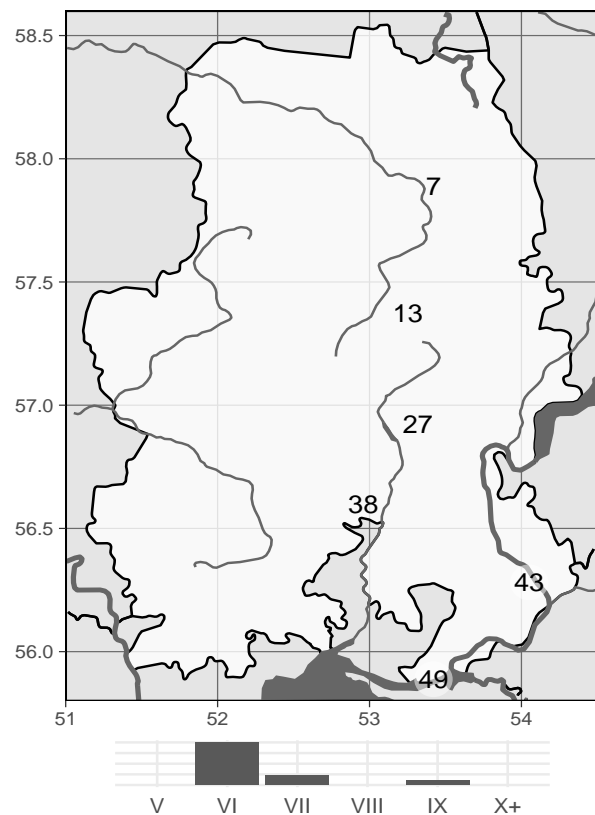


Fig. 112. Distribution map of *E. dentipalpis*

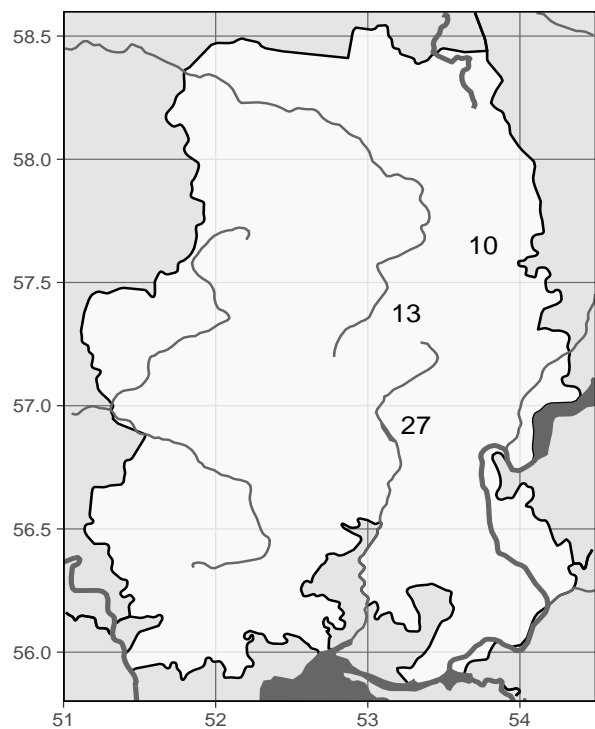
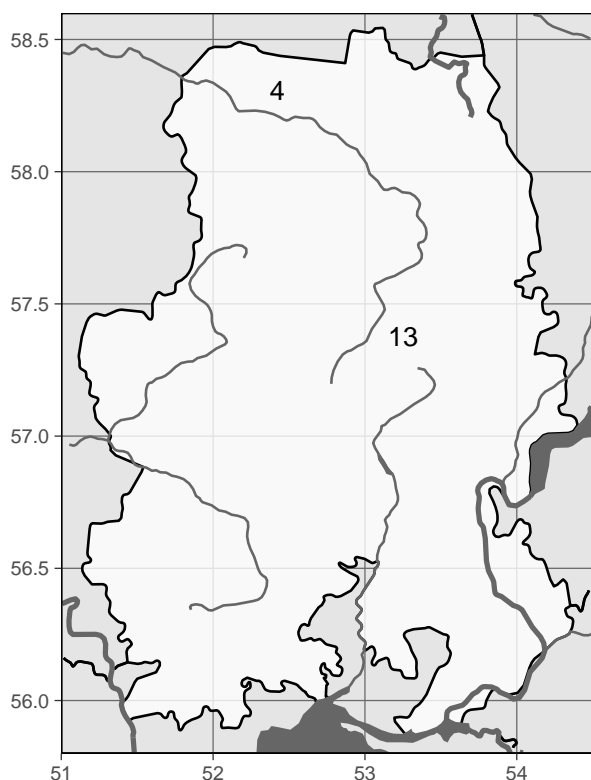
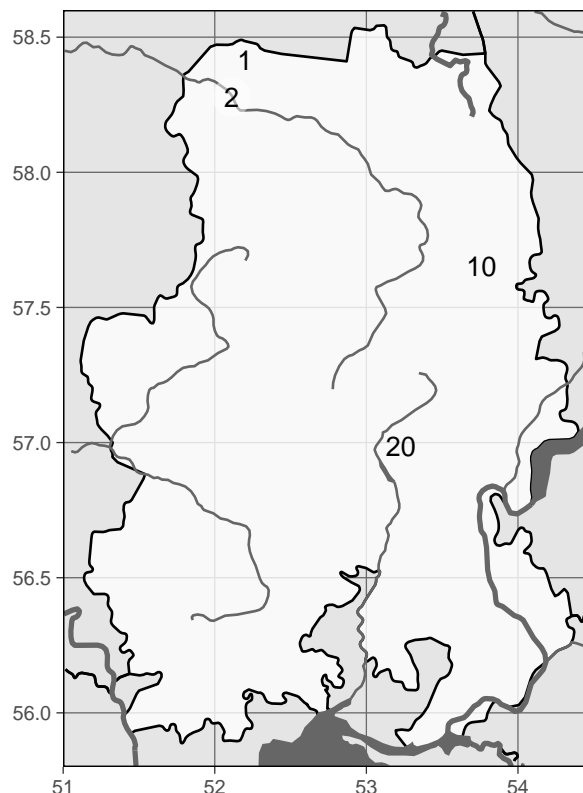


Fig. 113. Distribution map of *E. hiemalis*

Fig. 114. Distribution map of *E. ignobilis*Fig. 115. Distribution map of *F. bucculenta****Floronia bucculenta* (Clerck, 1757)**

Material (Fig. 115): Debesy Distr.: Baygurez (10): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 2 ♀, faunistic record, 25.VII.2012, leg. A.N. Sozontov; Barmashur (2): 1 ♀, dark coniferous forest with *Tilia*, 31.VIII.2011, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

***Glyphesis cottonae* (La Touche, 1946)**

Material: Glazov Distr.: Lyum (4): 1 ♀, faunistic record, 1.VIII.2014, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

***Glyphesis nemoralis* Esyunin & Efimik, 1994**

Material (Fig. 116): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 3 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (EastEuropean) Subboreal.

***Gnathonarium dentatum* (Wider, 1834)**

Material (Fig. 117): Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic)
Temperate.

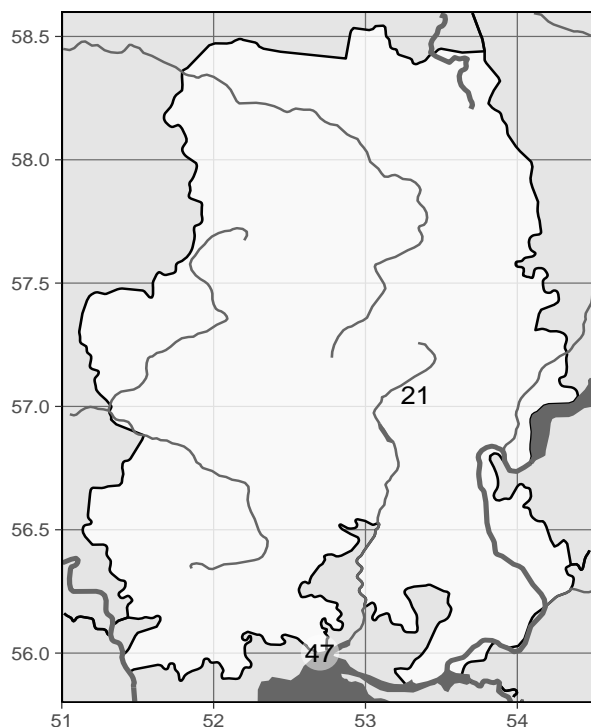


Fig. 116. Distribution map of *G. nemoralis*

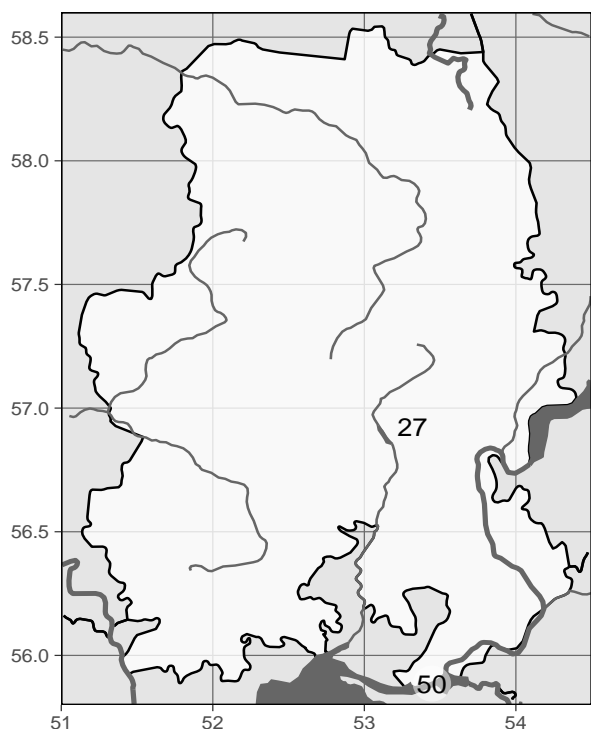


Fig. 117. Distribution map of *G. dentatum*

Gongyliellum latebricola (O. Pickard-Cambridge, 1871)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Stratum: litter, moss.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Gongyliellum murcidum Simon, 1884

Material (Fig. 118): Igra Distr.: Novye Zyatci (12): 1 ♂, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 2 ♂, 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov.

Stratum: litter.

Range: Palaearctic (Amphi-Palaearctic) Subboreal.

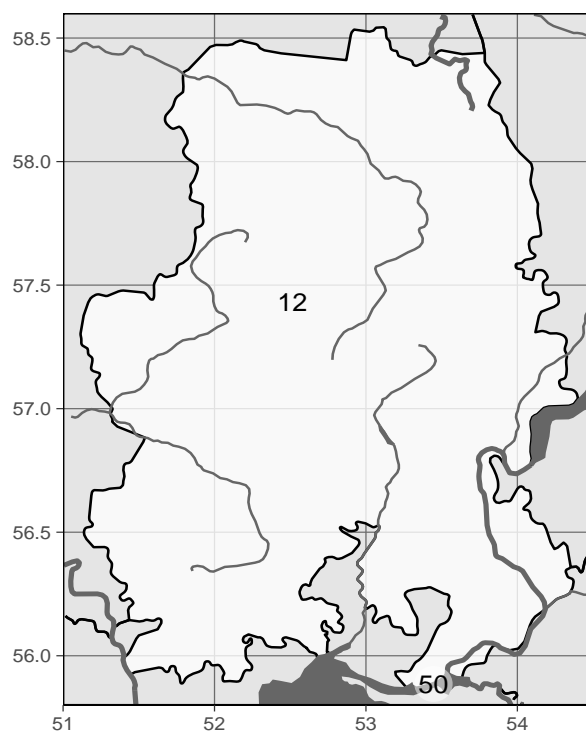


Fig. 118. Distribution map of *G. murcidum*

Gongylium rufipes (Linnaeus, 1758)

Material (Fig. 119): Igra Distr.: Chutyr (13): 1 ♀, bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 6.VIII.2012, leg. E.S. Shirobokova;

1 subadult ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♂, faunistic record, 27.VIII.2012, leg. E.S. Shirobokova; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 3 ♀, 1 subadult ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♂, 1 ♀, 1 juv., dark coniferous forest with *Tilia*, 9.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 7 ♂, 13 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 2 ♂, 7 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

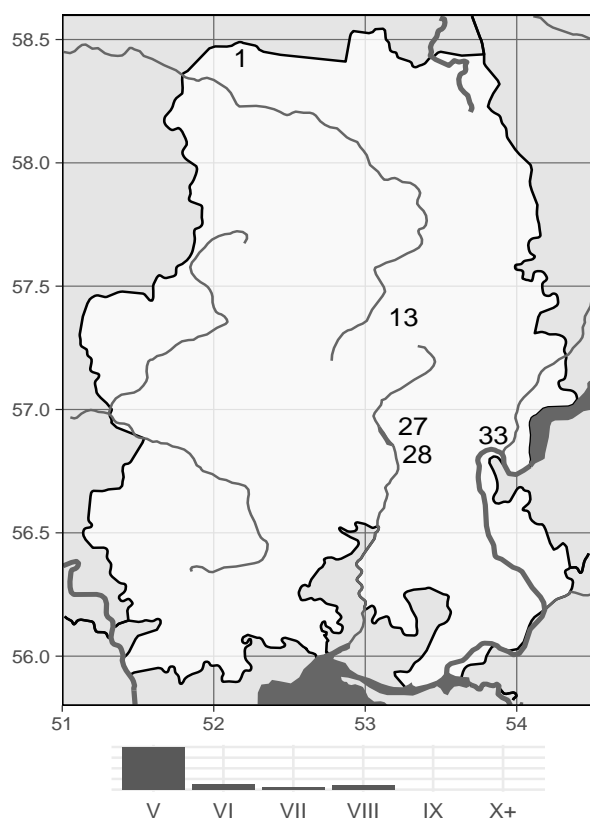


Fig. 119. Distribution map and phenology of *G. rufipes*

Biotope preferences: III – Upland *Tilia* forests (22 %), IV – *Tilia* forests

(21 %), III – Upland mixed forests (16 %), IV – Dark coniferous forests with *Tilia* (15 %), II – Woodlands (8 %).

Associated species. Quantitative: *Bathypantes nigrinus* (0.27), *Linyphia hortensis* (0.17), *Dictyna uncinata* (0.16), *Kaestneria pullata* (0.12), *Ballus chalybeius* (0.11). **Qualitative:** *Agyneta olivacea* (0.43), *Bathypantes nigrinus* (0.36), *Bathypantes gracilis* (0.30), *Linyphia hortensis* (0.29), *Ceratinella brevipes* (0.25).

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Helophora insignis (Blackwall, 1841)

Material (Fig. 120): Alnashy Distr.: Golushurma (47): 2 juv., riverain deciduous forest, 6.VII.2014, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 6 ♀, 16 subadult ♂, 19 subadult ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 subadult ♀, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 1 subadult ♀, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 1 subadult ♀, *Abies-Picea* forest, 24.VII.2011, leg. E.S. Shirobokova; 1 subadult ♂, *Abies-Picea* forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; 2 ♀, 1 subadult ♂, dark coniferous forest with *Tilia*, 6.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 2 ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, Unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova;

Karakulino Distr.: Byrgynda (**49**): 1 ♀, riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; Shignanda (**50**): 1 subadult ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 5 subadult ♂, 5 subadult ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 subadult ♂, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; 1 subadult ♂, 1 subadult ♀, faunistic record, 4.VIII.2012, leg. A.N. Sozontov; **Kez Distr.:** Cheptsa (**7**): 1 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; **Sarapul Distr.:** Sokolovka (**43**): 4 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; **Votkinsk Distr.:** 'Siva' biostation (Perevozhnoe) (**33**): 1 ♂, *Tilia* forest, 24.VIII.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, 1 subadult ♂, floodplain *Quercus* forest, 19.VIII.2011, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 20.IX.2012, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 4 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; **Yarskiy Distr.:** Perelom (**1**): 1 ♀, 1 subadult ♂, faunistic record, 25.VII.2012, leg. A.N. Sozontov; 14 subadult ♂, 18 subadult ♀, dark coniferous forest with *Tilia*, 9.VII.2015, leg. A.N. Sozontov; **Zavyalovo Distr.:** Lyukshudia (**25**): 1 ♂, dark coniferous forest with *Tilia*, 13.IX.2014, leg. A.N. Sozontov; Pozym Kabanikha (**28**): 1 ♂, 1 ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov; Doksha (**29**): 1 ♂, 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; Golyany Zakamye (**31**): 1 ♀, 1 juv., floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: II – Woodlands (18 %), III – Upland mixed forests (15 %), I – All the habitats (12 %), IV – Dark coniferous forests with *Tilia* (11 %), IV – *Abies-Picea* forests (10 %).

Associated species. Quantitative: *Linyphia triangularis* (0.35), *Metellina segmentata* (0.13), *Neriere emphana* (0.13), *Bolyphantes alticeps* (0.11), *Araneus diadematus* (0.09). **Qualitative:** *Linyphia triangularis* (0.40), *Bolyphantes alticeps* (0.33), *Metellina segmentata* (0.27), *Tenuiphantes mengei* (0.23), *Araneus diadematus* (0.18).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Temperate.

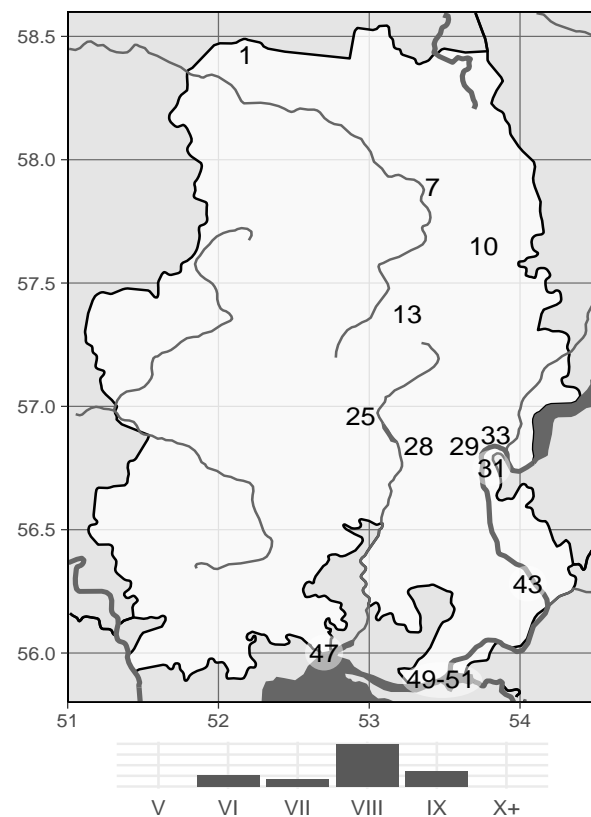


Fig. 120. Distribution map and phenology of *H. insignis*

Hylyphantes graminicola (Sundevall, 1830)

Material: **Zavyalovo Distr.:** Doksha (**29**): 1 ♂, faunistic record, 11.IX.2010, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Polyzoal.

Hypomma bituberculatum (Wider, 1834)

Material (Fig. 121): Karakulino Distr.: Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova.

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

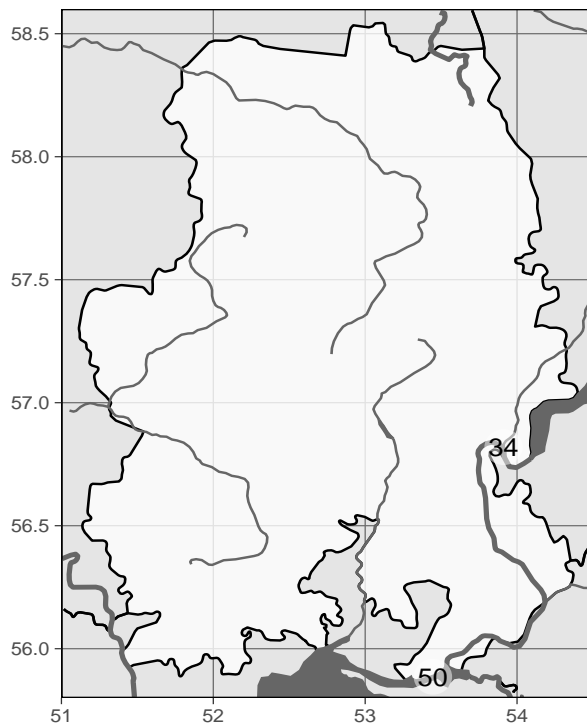


Fig. 121. Distribution map of *H. bituberculatum*

Hypomma fulvum (Bösenberg, 1902)

Material: Karakulino Distr.: Shignanda (50): 2 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov.

Stratum: herb.

Range: Euro-Siberian (European) Subboreal.

Hypselistes jacksoni (O. Pickard-Cambridge, 1903)

Material: Debesy Distr.: Baygurez (10): 1 ♂, 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov.

Stratum: herb.

Range: Holarctic (Sub-CircumHolarctic) Temperate.

Incestophantes crucifer (Menge, 1866)

Material (Fig. 122): Igra Distr.: Chutyr (13): 2 ♀, dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Euro-Siberian (European-WestSiberian) Temperate.

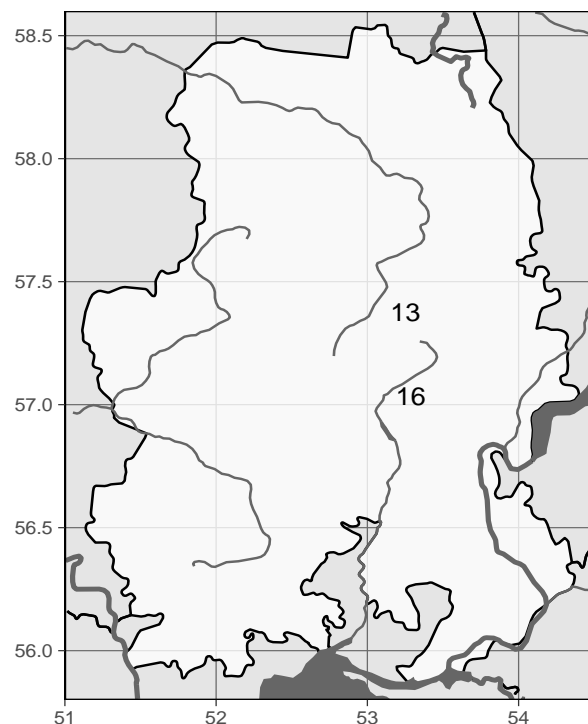


Fig. 122. Distribution map of *I. crucifer*

Kaestneria pullata (O. Pickard-Cambridge, 1863)

Material (Fig. 123): Glazov Distr.: Lyum (4): 1 ♀, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; Izhevsk (24): 1 ♀, *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov;

Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, faunistic record, 18.VII.2015, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 2 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Qualitative: *Linyphia hortensis* (0.44), *Bathyphantes nigrinus* (0.24), *Gongylidium rufipes* (0.24), *Agyneta olivacea* (0.22), *Salcticus cingulatus* (0.22).

Stratum: herb, shrub, canopy.

Range: Holarctic (Circum-Holarctic) Temperate.

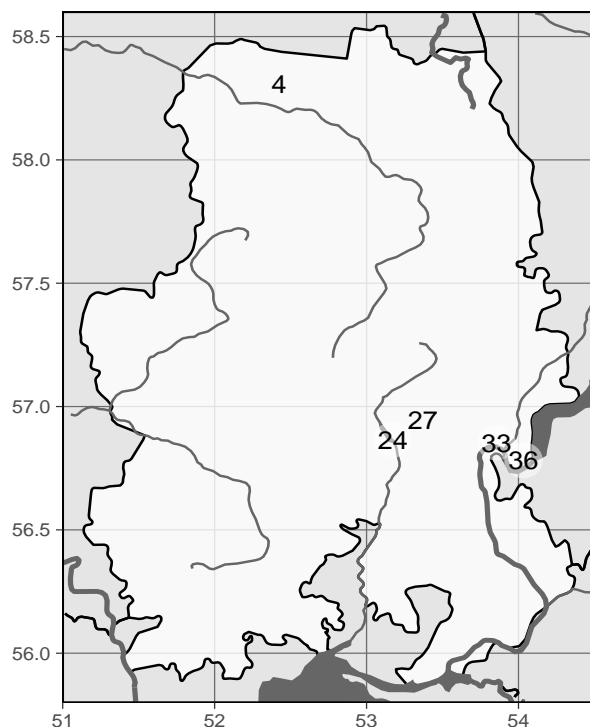


Fig. 123. Distribution map of *K. pullata*

Lepthyphantes leprosus (Ohlert, 1865)

Material: Izhevsk (24): 1 ♂, Heated dwellings, 22.XI.2012, leg. A.N. Sozontov; 1 ♂, Heated dwellings, 25.VIII.2013, leg. A.N. Sozontov.

Stratum: tree stems, synanthrope (outside buildings).

Range: Holarctic (Circum-Holarctic) Temperate.

Linyphia hortensis Sundevall, 1830

Material (Fig. 124): Votkinsk Distr.: Noviy (35): 1 ♀, *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, 2 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Palaearctic (Amphi-Palaearctic) Subboreal.

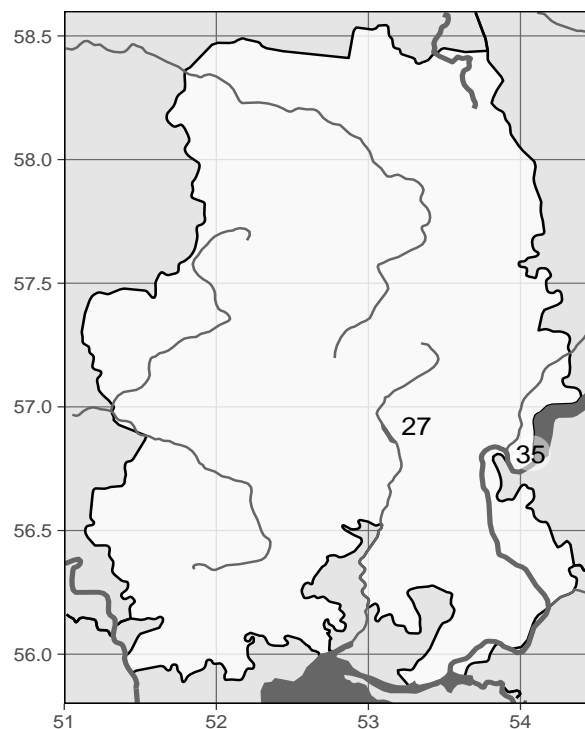


Fig. 124. Distribution map of *L. hortensis*

Linyphia tenuipalpis Simon, 1884

Material (Fig. 125): Alnashy Distr.: Golushurma (47): 1 ♀, faunistic record, 15.IX.2012, leg. S.V. Dedyukhin; 1 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♂, 2 ♀, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 3 subadult ♂, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 subadult ♂, sloping steppe meadow, 8.VII.2011, leg. A.N. Sozontov.

Associated species. Quantitative: *Rhysodromus histrio* (0.24), *Cicurina cicur* (0.13), *Heliophanus flavipes* (0.13), *Attulus saltator* (0.12), *Alopecosa inquilina* (0.12).

Qualitative: *Rhysodromus histrio* (0.43), *Spiracme striatipes* (0.31), *Agalenatea redii* (0.23), *Steatoda albomaculata* (0.22), *Attulus saltator* (0.20).

Stratum: herb, shrub.

Range: Palaearctic (West-Palaearctic) Subboreal.

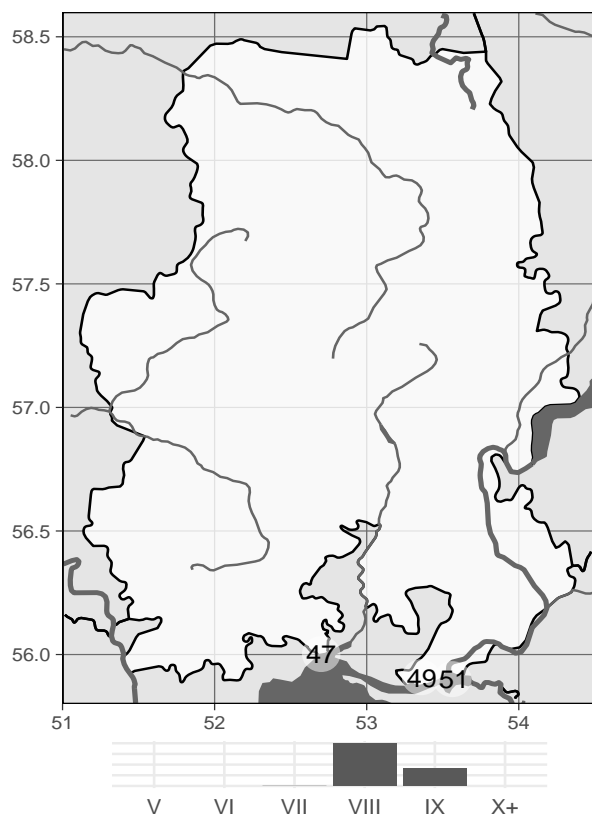


Fig. 125. Distribution map and phenology of *L. tenuipalpis*

***Linyphia triangularis* (Clerck, 1757)**

Material (Fig. 126): Alnashy Distr.: Golushurma (47): 1 juv., edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 4 juv., riverain deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 5 juv., sloping steppe meadow, 24.VII.2014, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 2 ♂, 7 ♀, 2 subadult ♂, 2 subadult ♀, 7 juv., *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Glazov Distr.: Lyum (4): 1 ♀, open raised

bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 24.VIII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 29.VII.2012, leg. E.S. Shirobokova; 3 ♂, 3 ♀, bog, 6.VIII.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 3 ♀, dark coniferous forest with *Tilia*, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 5 ♀, riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, Unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; 1 ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; 10 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; 1 ♂, 4 ♀, Unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 1 subadult ♂, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 subadult ♂, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 2 subadult ♂, 1 subadult ♀, 5 juv., riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 subadult ♂, open lake shore, 9.VII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; 1 ♀, faunistic record, 4.VIII.2012, leg. A.N. Sozontov; Cheganda (52): 1 juv., anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 3 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow,

16.VII.2008, leg. A.V. Ilyina; Kiyasovo Distr.: Baisary (**48**): 1 subadult ♂, faunistic record, 29.VI.2015, L.P. Pyatak; Malaya Purga Distr.: Malaya Purga (**38**): 1 ♀, 2 subadult ♂, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sharkan Distr.: Sharkan (**22**): 2 subadult ♂, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; 3 subadult ♂, 4 juv., *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♀, edge of coniferous forest, 24.VIII.2009, leg. A.N. Sozontov; 5 ♂, 5 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 ♂, 4 ♀, floodplain *Quercus* forest, 19.VIII.2011, leg. A.N. Sozontov; 1 subadult ♀, floodplain *Quercus* forest, 25.VIII.2011, leg. A.N. Sozontov; 1 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 1 ♂, faunistic record, 18.VII.2015, leg. A.N. Sozontov; 2 ♂, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 2 ♂, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 1 ♂, 10 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Siva's delta (**34**): 2 ♀, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; 3 ♀, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 juv., *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (**35**): 2 ♂, 4 ♀, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov; 2 ♂, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 2 juv., faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Yakshur-Bodya Distr.: Starye Zyatci (**15**): 1 ♀, *Abies-Picea* forest, 14.VIII.2008, leg. A.N. Sozontov; 1 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; 25-km Yakshur-Bodyinskiy

trakt (**18**): 1 ♀, watershed coniferous forest, 15.IX.2009, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (**28**): 1 ♂, 1 ♀, 1 subadult ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov; Doksha (**29**): 2 ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; Golyany Zakamye (**31**): 1 ♂, 4 ♀, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov.

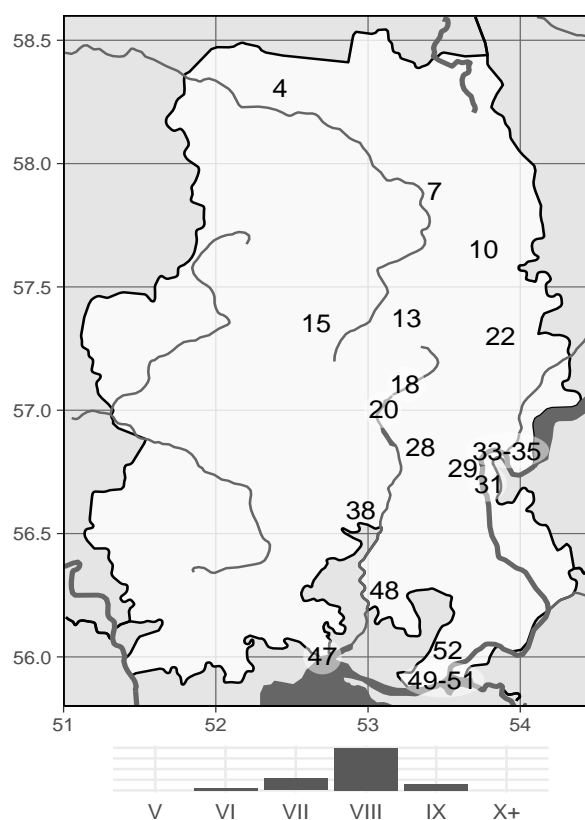


Fig. 126. Distribution map and phenology of *L. triangularis*

Biotopic preferences: II – Anthropogenic habitats (32 %), III – Indoor spaces (25 %), IV – Unheated spaces (22 %), I – All the habitats (21 %), III – Agrophytocenoses (11 %).

Associated species. Quantitative: *Helophora insignis* (0.35), *Metellina segmentata* (0.28), *Araneus diadematus* (0.19), *Nerience emphana* (0.19), *Leviellus*

stroemi (0.16). **Qualitative:** *Helophora insignis* (0.40), *Metellina segmentata* (0.34), *Araneus diadematus* (0.26), *Nerienne emphana* (0.23), *Larinioides patagiatus* (0.23).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Lophomma punctatum (Blackwall, 1841)

Material: Yarskiy Distr.: Perelom (1): 1 ♀, *Abies-Picea* forest, 15.VII.2015, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Macrargus carpenteri (O. Pickard-Cambridge, 1895)

Material (Fig. 127): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova

Biotopic preferences: IV – *Pinus* forests (32 %), III – Upland coniferous forests (29 %), II – Woodlands (11 %), I – All the habitats (5 %), II – Meadowlands (0 %).

Associated species. Quantitative: *Cnephalocotes obscurus* (0.53), *Troxochrota scabra* (0.35), *Tibioplus diversus* (0.32), *Diplocephalus latifrons*

(0.28), *Walckenaeria cucullata* (0.27). **Qualitative:** *Cnephalocotes obscurus* (0.59), *Zelotes pseudogallicus* (0.56), *Minyriolus pusillus* (0.51), *Macrargus rufus* (0.50), *Agyneta subtilis* (0.48).

Stratum: litter.

Range: Euro-Siberian (European) Temperate.

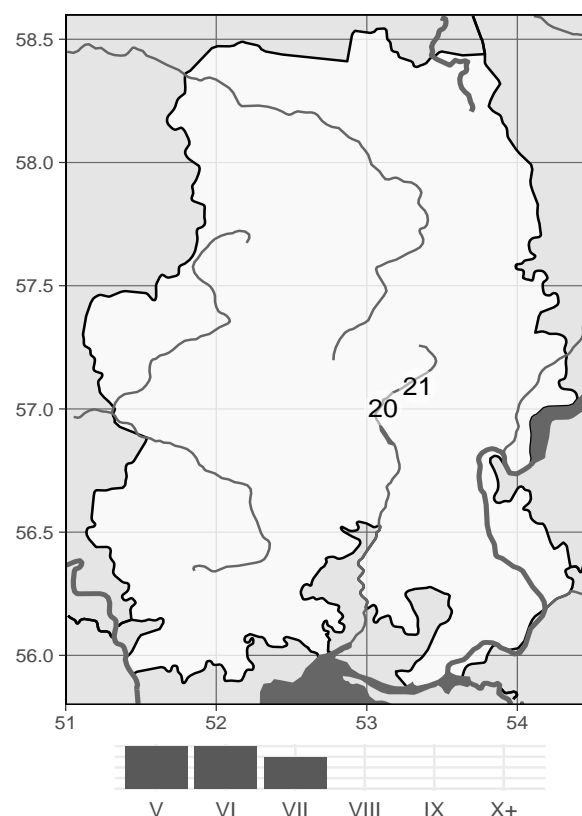


Fig. 127. Distribution map and phenology of *M. carpenteri*

Macrargus rufus (Wider, 1834)

Material (Fig. 128): Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 28 ♂, 2 ♀, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 9 ♂, 3 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 28.VI.2017, leg.

S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova.

Biotope preferences: IV – *Pinus* forests (25 %), III – Upland coniferous forests (22 %), II – Woodlands (11 %), I – All the habitats (5 %), III – Upland mixed forests (0 %).

Associated species. Quantitative: *Anguliphantes angulipalpis* (0.34), *Tapinocyba biscissa* (0.28), *Centromerus incilium* (0.23), *Diplocephalus latifrons* (0.19), *Macrargus carpenteri* (0.18). **Qualitative:** *Diplocephalus latifrons* (0.53), *Centromerus incilium* (0.50), *Macrargus carpenteri* (0.50), *Tapinocyba biscissa* (0.45), *Agyneta subtilis* (0.40).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

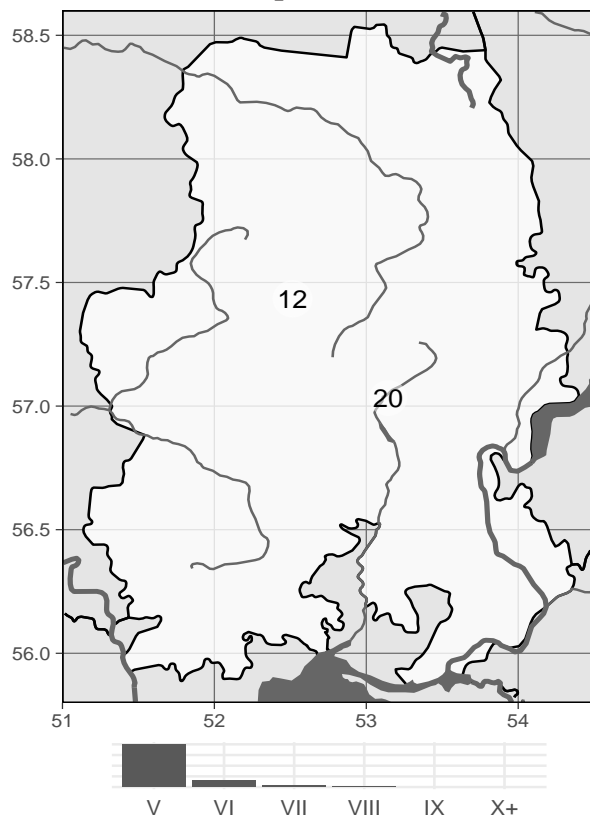


Fig. 128. Distribution map and phenology of *M. rufus*

Maro pansibiricus Tanasevitch, 2006

Material (Fig. 129): Sharkan Distr.: Sharkan (22): 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♂, 2 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (Trans-Siberian) Boreal.

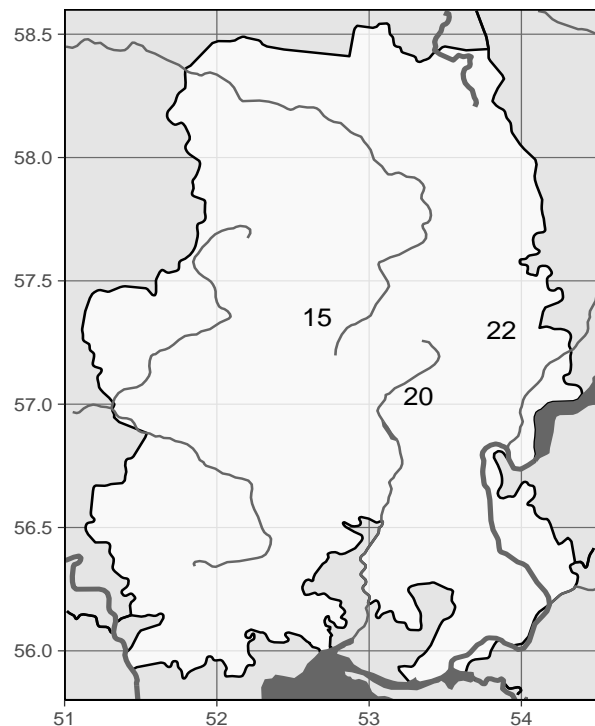


Fig. 129. Distribution map of *M. pansibiricus*

Maso sundevalli (Westring, 1851)

Material (Fig. 130): Igra Distr.: Novye Zyatci (12): 1 ♂, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 25.VI.2011, leg. E.S. Shirobokova; 4 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♂, 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 1 ♂, upland meadow, 16.VII.2008, leg. A.V.

Ilyina; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 4 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Troxochrus scabriculus* (0.23), *Panamomops menzei* (0.19), *Attulus saltator* (0.19), *Erigonella hiemalis* (0.19), *Hackmania prominula* (0.19). **Qualitative:** *Diplocephalus picipes* (0.36), *Attulus saltator* (0.33), *Crustulina guttata* (0.25), *Panamomops menzei* (0.22), *Tetragnatha obtusa* (0.21).

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Polyzonal.

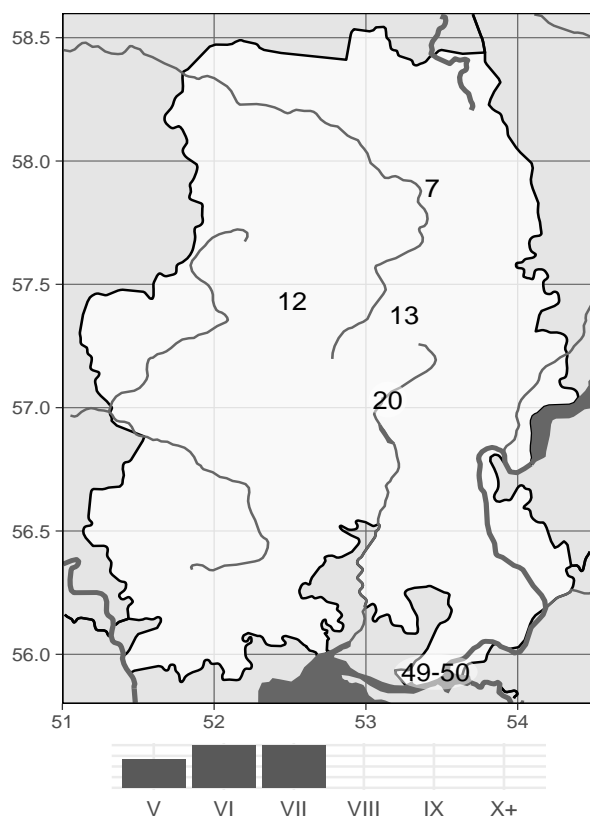


Fig. 130. Distribution map and phenology of *M. sundevalli*

Megalephyphantes nebulosus
(Sundevall, 1830)

Material: Karakulino Distr.: Byrgynda (49): 1 ♀, Unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina.

Stratum: tree stems, synanthrope (outside buildings).

Range: Holarctic (Circum-Holarctic) Synanthropic.

Megalephyphantes pseudocollinus
Saaristo, 1997

Material (Fig. 131): Alnashy Distr.: Golushurma (47): 2 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♂, 3 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; 3 ♂, 1 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 2 ♂, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, agrocoenosis, 15.IX.2013, leg. S.V. Dedyukhin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova.

Biotope preferences: III – Floodplain deciduous forests (11 %), IV – Floodplain broadleaved forests (11 %), II – Woodlands (6 %), I – All the habitats (5 %), IV – Floodplain *Quercus* forests (4 %).

Associated species. Quantitative: *Agroeca cuprea* (0.25), *Cicurina cicur* (0.16), *Trichoncus affinis* (0.15), *Steatoda albomaculata* (0.14), *Allomennea scopigera* (0.13). **Qualitative:** *Allomennea scopigera* (0.36), *Trichoncus affinis* (0.29), *Cicurina cicur* (0.27), *Agroeca proxima* (0.26), *Agroeca cuprea* (0.25).

Stratum: shrub, tree stems.

Range: Palaearctic (West-Palaearctic) Subboreal.

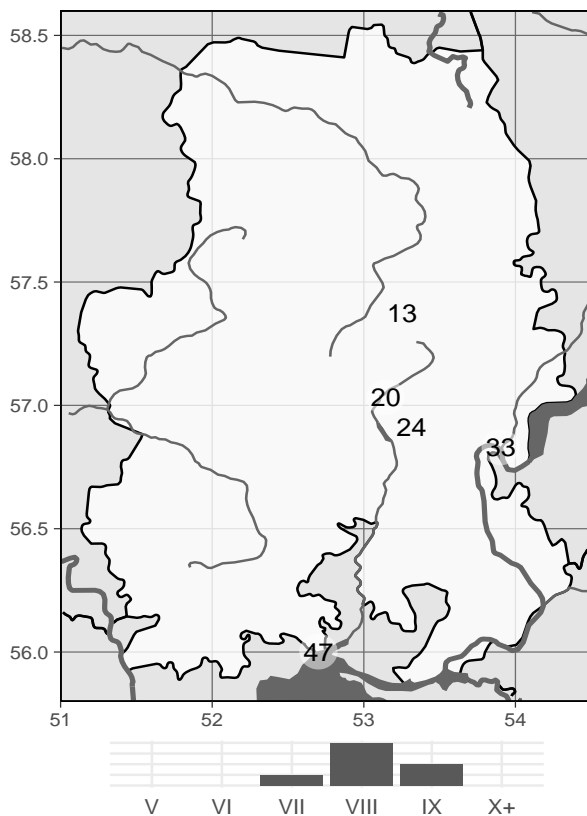


Fig. 131. Distribution map and phenology of *M. pseudocollinus*

***Metapanamomops kaestneri* (Wiehle, 1961)**

Material (Fig. 132): Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 2 ♂, 19 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 2 ♂, 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Glyphesis nemoralis* (0.29), *Lathys heterophthalma* (0.20), *Titanoeca quadriguttata* (0.19), *Zora nemoralis* (0.18), *Titanoeca schineri* (0.14). **Qualitative:** *Glyphesis nemoralis* (0.60), *Titanoeca quadriguttata* (0.50), *Lathys humilis* (0.44), *Talavera aperta* (0.44), *Titanoeca schineri* (0.40).

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.



Fig. 132. Phenology of *M. kaestneri*

***Micrargus herbigradus* (Blackwall, 1854)**

Material: Alnashy Distr.: Golushurma (47): 1 ♀, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov.

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Micrargus subaequalis* (Westring, 1851)**

Material: Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Microlinyphia impigra* (O. Pickard-Cambridge, 1871)**

Material: Karakulino Distr.: Ust'-Belsk (51): 1 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov.

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Temperate.

***Microlinyphia pusilla* (Sundevall, 1830)**

Material (Fig. 133): Alnashy Distr.: Golushurma (47): 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 2 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 8 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, 1 subadult ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5):

1 ♂, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 subadult ♂, edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; Kez Distr.: Cheptsa (7): 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov; 1 ♂, 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 1 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 1 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; Yarskiy Distr.: Perelom (1): 2 ♀, floodplain steppified meadow, 9.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, bottomland meadow, 31.VII.2014, leg. A.N. Sozontov.

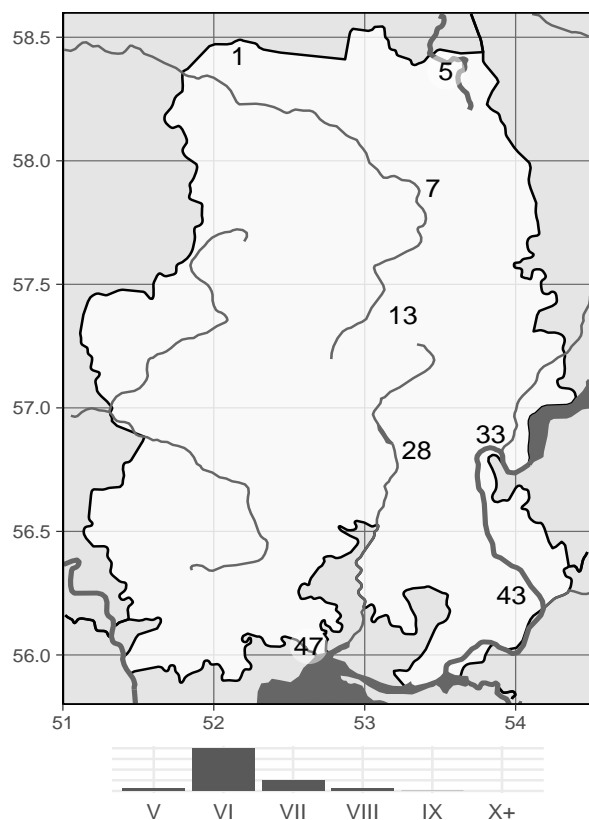


Fig. 133. Distribution map and phenology of *M. pusilla*

Biotope preferences: IV – Edges of mixed forests (15 %), IV – Floodplain mesophytic meadows (14 %), III – Floodplain meadows (12 %), II – Meadowlands (11 %), I – All the habitats (6 %).

Associated species. Quantitative: *Heliophanus flavipes* (0.29), *Euryopis saukeya* (0.24), *Larinioides cornutus* (0.20), *Singa hamata* (0.18), *Pityohyphantes phrygianus* (0.17). **Qualitative:** *Hypsosinga sanguinea* (0.29), *Rhysodromus histrio* (0.26), *Larinioides cornutus* (0.26), *Tetragnatha pinicola* (0.23), *Euryopis saukeya* (0.22).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Polyzoal.

Microneta viaria (Blackwall, 1841)

Material (Fig. 134): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov; Izhevsk (24): 1 ♂, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 8 ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, faunistic record, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 5 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 5 ♂, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 2 ♀, *Quercus-Tilia* forest, 4.VII.2016, leg. S.V. Dedyukhin; 9 ♀, floodplain *Quercus* forest, 6.VII.2016, leg. S.V. Dedyukhin; 1 ♀, floodplain *Quercus* forest, 7.VII.2016, leg. A.V. Uskova; 4 ♀, *Quercus-Populus* forest, 7.VII.2016, leg.

S.V. Dedyukhin; 3 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 3 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 3 ♀, *Quercus-Populus* forest, 7.VII.2017, leg. S.V. Dedyukhin; Siva's delta (34): 11 ♂, 2 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 2 ♀, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, 3 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 2 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 4 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 5 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: II – Woodlands (27 %), III – Floodplain deciduous forests (18 %), IV – Floodplain *Quercus* forests (16 %), I – All the habitats (14 %), III – Upland *Tilia* forests (13 %).

Associated species. Quantitative: *Robertus lividus* (0.21), *Haplodrassus silvestris* (0.20), *Agyneta affinis* (0.20), *Tenuiphantes nigriventris* (0.20), *Crustulina guttata* (0.19). **Qualitative:**

Tenuiphantes tenebricola (0.42), *Robertus lividus* (0.33), *Hahnia ononidum* (0.33), *Pachygnatha listeri* (0.33), *Abacoproeces saltuum* (0.32).

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

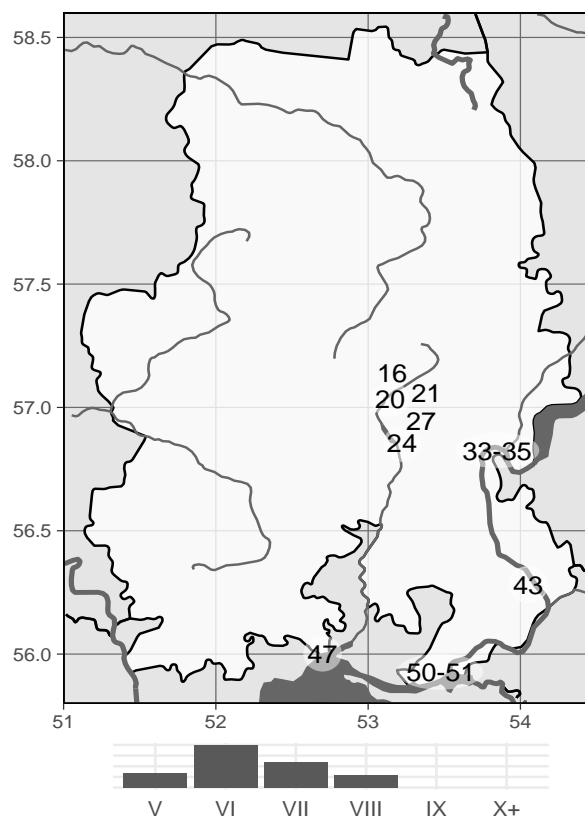


Fig. 134. Distribution map and phenology of *M. viaria*

Minyriolus pusillus (Wider, 1834)

Material (Fig. 135): Debesy Distr.: Baygurez (10): 1 ♂, 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 2 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 6 ♂, 3 ♀, watershed coniferous forest, 28.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci (15): 2 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; Selychka (16): 4 ♂, 5 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VI.2017,

leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 4 ♂, 2 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 3 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Biotope preferences: III – Upland coniferous forests (37 %), IV – *Abies-Picea* forests (27 %), II – Woodlands (14 %), IV – *Pinus* forests (12 %), I – All the habitats (12 %).

Associated species. Quantitative: *Xysticus luctuosus* (0.31), *Zelotes clivicola* (0.28), *Robertus lividus* (0.28), *Zelotes pseudogallicus* (0.26), *Macrargus carpenteri* (0.26). **Qualitative:** *Zelotes clivicola* (0.54), *Macrargus carpenteri* (0.51), *Agyneta subtilis* (0.50), *Hahnia ononidum* (0.48), *Xysticus luctuosus* (0.47).

Stratum: litter (moss).

Range: Euro-Siberian (Trans-EuroSiberian) Boreal.

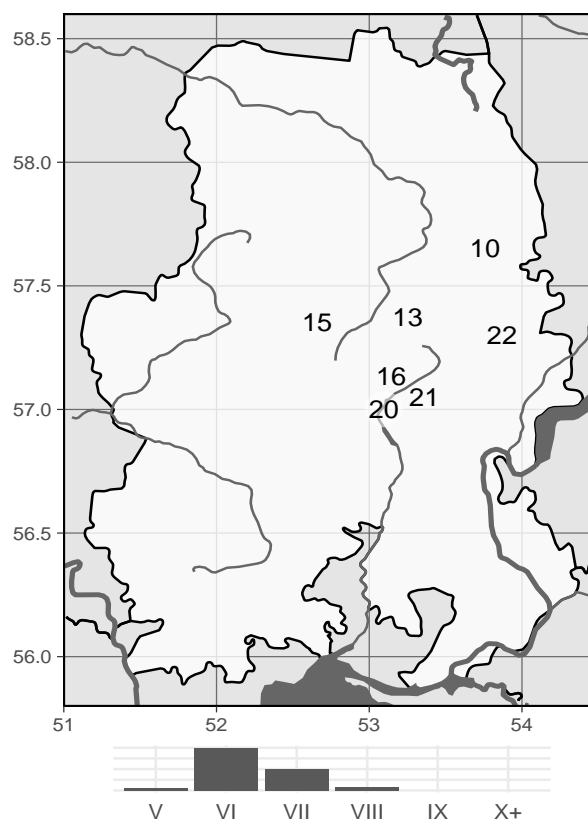


Fig. 135. Distribution map and phenology of *M. pusillus*

***Moebelia penicillata* (Westring, 1851)**

Material: Izhevsk (24): 1 ♂, *Pinus* forest, 10.IV.2013, leg. A.N. Sozontov.

Stratum: tree stems.

Range: Euro-Siberian (European) Temperate.

***Neriene clathrata* (Sundevall, 1830)**

Material (Fig. 136): Igra Distr.: Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, anthropogenic habitat, 8.V.2012, leg. A.N. Sozontov; 1 ♂, heated dwellings, 25.VIII.2013, leg. A.N. Sozontov; 3 ♂, agrocoenosis, 15.IX.2013, leg. S.V. Dedyukhin; Kez Distr.: Chepts (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 3 ♂,

upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhoe) (33): 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♂, Unheated indoor spaces, 2.V.2012, leg. A.N. Sozontov; 1 ♀, Unheated indoor spaces, 22.VI.2015, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova.

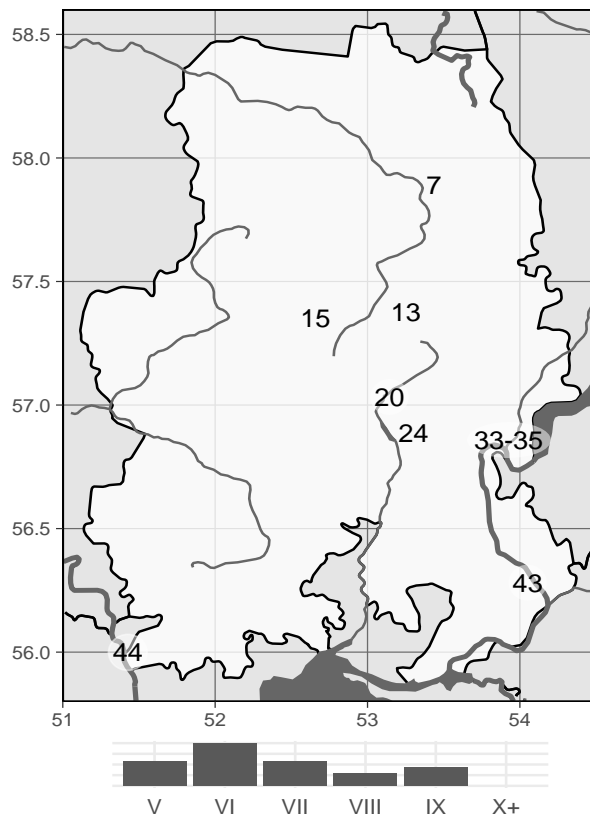


Fig. 136. Distribution map and phenology of *N. clathrata*

Biotope preferences: II – Anthropogenic habitats (19 %), IV – Agrophytocenoses (16 %), III – Agrophytocenoses (15 %), III – Indoor spaces (7 %), I – All the habitats (6 %).

Associated species. Quantitative: *Pachygnatha clercki* (0.24), *Pityohyphantes phrygianus* (0.23), *Oedothorax gibbosus* (0.19), *Robertus neglectus* (0.17), *Callilepis nocturna* (0.15). **Qualitative:** *Pityohyphantes phrygianus* (0.21), *Neriere emphana* (0.20), *Callilepis nocturna* (0.19), *Erigone dentipalpis* (0.19), *Neriere montana* (0.18).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Neriere emphana (Walckenaer, 1841)

Material (Fig. 137): Alnashy Distr.: Golushurma (47): 2 ♂, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Glazov Distr.: Lyum (4): 2 ♂, faunistic record, 1.VIII.2014, leg. A.N. Sozontov; 1 ♂, 1 ♀, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, *Alnus* groves, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, edge of coniferous forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 2 ♂, 9 ♀, 1 subadult ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 2 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 4 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kiyasovo Distr.: Baisary (48): 1 ♀, faunistic record, 29.VI.2015, leg. L.P. Pyatak; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 2 ♀, *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhoe) (33): 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 2 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova;

Siva's delta (**34**): 1 juv., floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♂, 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (**35**): 1 juv., dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov; 2 juv., *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, 1 subadult ♀, dark coniferous forest with *Tilia*, 19.VI.2009, leg. A.N. Sozontov; 1 ♀, open river bank, 19.VI.2009, leg. A.N. Sozontov; 2 juv., *Pinus* forest, 19.VI.2009, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; 4 ♀, dark coniferous forest with *Tilia*, 2.VII.2010, leg. A.N. Sozontov; 6 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Yakshur-Bodya Distr.: Selychka (**16**): 1 ♂, 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; 1 ♂, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 2 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (**1**): 2 ♀, faunistic record, 25.VII.2012, leg. A.N. Sozontov; 1 ♂, 1 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov.

Biotope preferences: IV – *Alnus* groves (19 %), I – All the habitats (12 %), II – Woodlands (7 %), III – Floodplain deciduous forests (6 %), III – Upland mixed forests (5 %).

Associated species. Quantitative: *Nerienne radiata* (0.23), *Linyphia triangularis* (0.19), *Dolomedes plantarius* (0.15), *Tibellus oblongus* (0.15), *Araneus marmoreus* (0.14). **Qualitative:** *Nerienne radiata* (0.33), *Linyphia triangularis* (0.23), *Nerienne clathrata* (0.20), *Nerienne montana* (0.19), *Panamomops menzei* (0.18).

Stratum: shrub, canopy.

Range: Holarctic (Sub-CircumHolarctic) Temperate

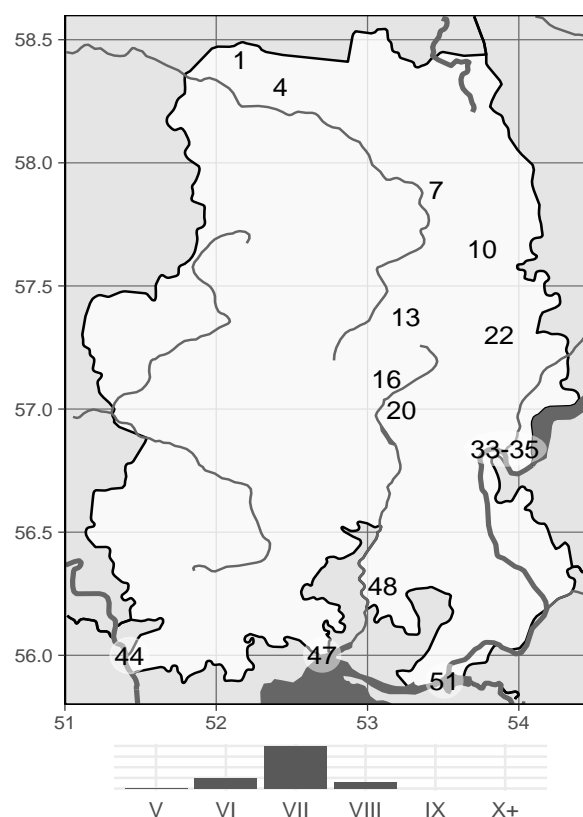


Fig. 137. Distribution map and phenology of *N. emphana*

Nerienne montana (Clerck, 1757)

Material (Fig. 138): Igra Distr.: Chutyr (**13**): 1 subadult ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (**49**): 3 ♀, Unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; 2 subadult ♂, 2 subadult ♀, 1 juv., Unheated indoor spaces, 27.VI.2017, leg. A.N. Izhboldina; 1 ♀, 5 subadult ♂, 3 subadult ♀, 7 juv., agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; 1 ♀, Unheated indoor spaces, 27.VII.2017, leg. A.N. Izhboldina; 1 ♀, 1 subadult ♂, Unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (**50**): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov;

2 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Chepts (7): 3 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Makarovo (39): 4 ♀, open river bank, 10.VI.2009, leg. A.N. Sozontov; Sokolovka (43): 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♂, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; Siva's delta (34): 2 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 2 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov; 4 ♀, open river bank, 19.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♀, 1 subadult ♂, 1 juv., open river bank, 19.VIII.2009, leg. A.N. Sozontov; 3 ♀, open river bank, 2.VII.2010, leg. A.N. Sozontov; 2 ♀, open river bank, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 subadult ♂, Unheated indoor spaces, 1.IX.2011, leg. A.N. Sozontov; 25-km Yakshur-Bodyinskiy trakt (18): 1 ♀, *Tilia* forest, 15.IX.2009, leg. A.N. Sozontov; 2 subadult ♂, wooded raised bog, 15.IX.2009, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; Golyany (30): 5 ♀, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

Biotope preferences: II – Anthropogenic habitats (40 %), III – Indoor spaces (32 %), IV – Unheated spaces (24 %), III – Agrophytocenoses (18 %), IV – Wooded raised bogs (18 %).

Associated species. Quantitative: *Parasteatoda tabulata* (0.38), *Tetragnatha dearmata* (0.29), *Steatoda bipunctata* (0.22), *Leviellus stroemi* (0.15), *Larinioides patagiatus* (0.15). **Qualitative:** *Parasteatoda tabulata* (0.47), *Tetragnatha dearmata* (0.35), *Leviellus stroemi* (0.31), *Steatoda bipunctata* (0.30), *Clubiona reclusa* (0.27).

Stratum: shrub, tree stems.

Range: Palaearctic (Trans-Palaearctic) Temperate.

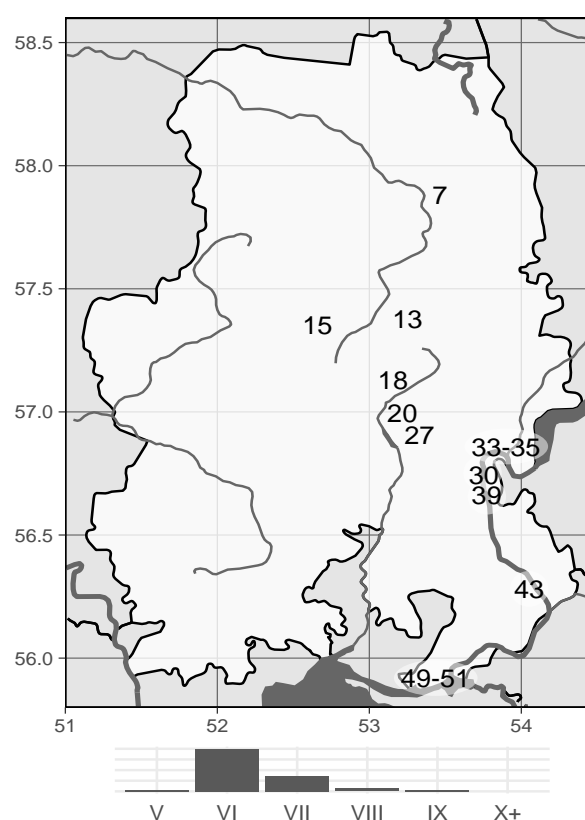


Fig. 138. Distribution map and phenology of *N. montana*

Nerienne peltata (Wider, 1834)

Material (Fig. 139): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40):

1 ♀, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Volozhka (26): 1 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov.

Associated species. Qualitative: *Parasteatoda lunata* (0.20), *Argyroneta aquatica* (0.18), *Pardosa alacris* (0.18), *Zora spinimana* (0.16), *Dismodicus bifrons* (0.15).

Stratum: herb, shrub.

Range: Holarctic (Greenland-West Siberian) Temperate.

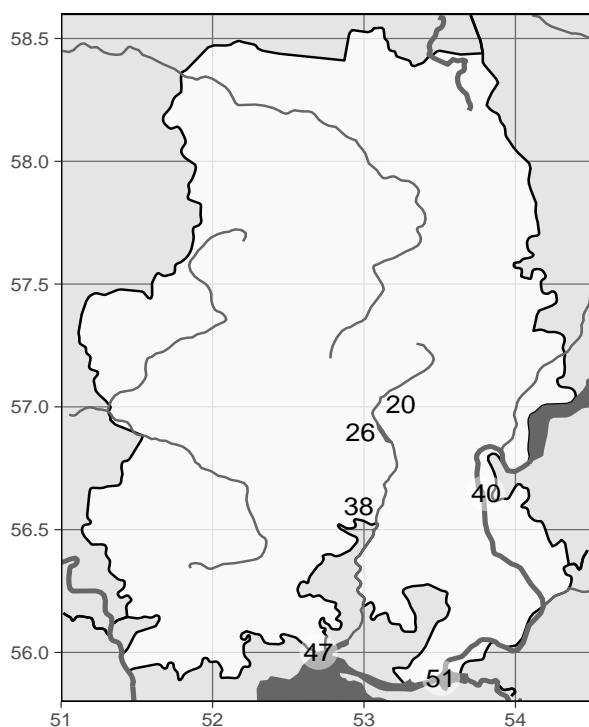


Fig. 139. Distribution map of *N. peltata*

Nerienne radiata (Walckenaer, 1841)

Material (Fig. 140): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 4 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 4 ♀, 1 subadult ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; 1 ♀, 1 juv., open river

bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 3 ♀, *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 19.VI.2009, leg. A.N. Sozontov; 2 ♂, open raised bog, 19.VI.2009, leg. A.N. Sozontov; 2 ♀, *Pinus* forest, 19.VI.2009, leg. A.N. Sozontov; 1 ♀, open raised bog, 18.VIII.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Yakshur-Bodya Distr.: Selychka (16): 7 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

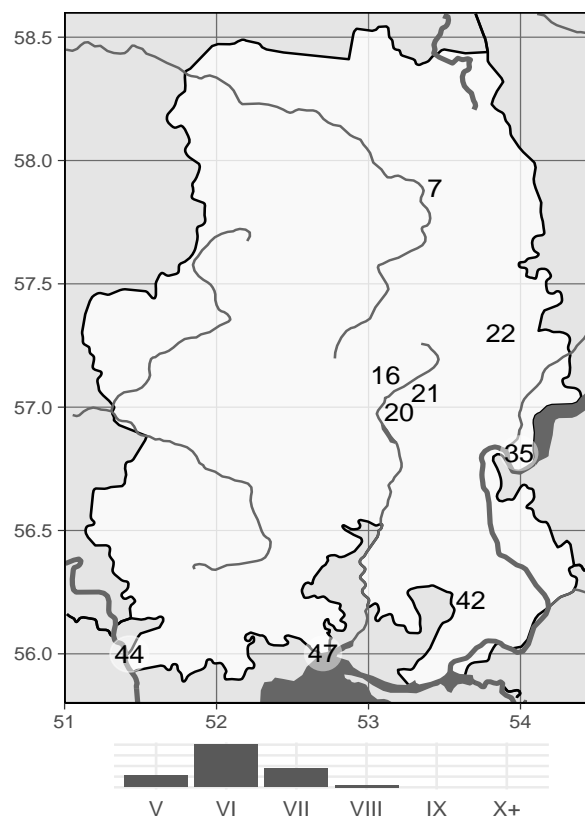


Fig. 140. Distribution map and phenology of *N. radiata*

Biotope preferences: III – Bogs (9 %), III – Agrophytocenoses (9 %), IV – Open raised bogs (7 %), IV – Agrophytocenoses (7 %), II – Anthropogenic habitats (6 %).

Associated species. Quantitative: *Tmarus piger* (0.33), *Neriere emphana* (0.23), *Mangora acalypha* (0.22), *Hypsosinga sanguinea* (0.20), *Oedothorax apicatus* (0.19). **Qualitative:** *Neriere emphana* (0.33), *Tmarus piger* (0.32), *Hypsosinga sanguinea* (0.29), *Araneus marmoreus* (0.26), *Heliophanus flavipes* (0.24).

Stratum: shrub, canopy.

Range: Holarctic (Circum-Holarctic) Temperate.

Obscuriphantes obscurus (Blackwall, 1841)

Material: Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov.

Stratum: canopy.

Range: Euro-Siberian (European-WestSiberian) Boreal-mountain.

Oedothorax apicatus (Blackwall, 1850)

Material (Fig. 141): Glazov Distr.: Lyum (4): 1 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 3 ♂, 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova.

Associated species. Qualitative: *Pityohyphantes phrygianus* (0.44), *Tibioplus diversus* (0.36), *Macrargus carpenteri* (0.27), *Agyneta conigera* (0.24), *Hackmania prominula* (0.22).

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Polyzoal.

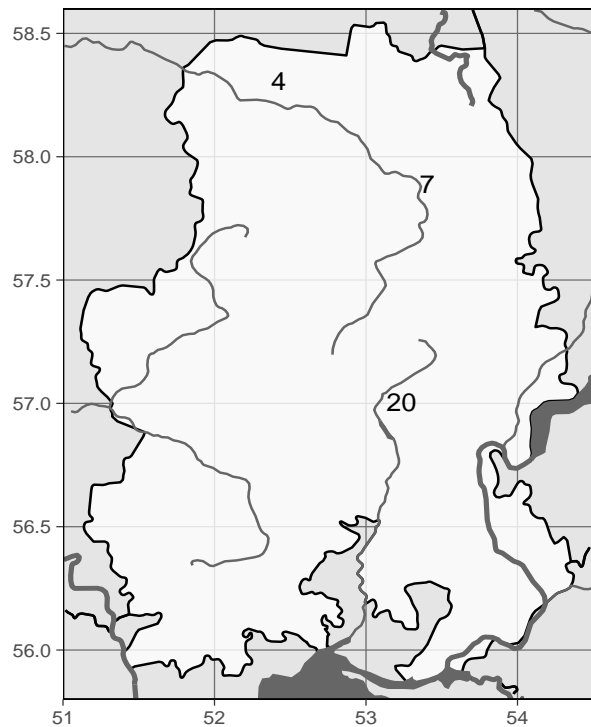


Fig. 141. Distribution map of *O. apicatus*

Oedothorax gibbosus (Blackwall, 1841)

Material (Fig. 142): Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♂, 2 ♀, *Abies-Picea* forest, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Pachygnatha clercki* (0.40), *Ozyptila claveata* (0.30), *Haplodrassus moderatus* (0.27), *Robertus neglectus* (0.27), *Asagena phalerata* (0.22). **Qualitative:** *Haplodrassus moderatus* (0.44), *Ozyptila claveata* (0.43), *Bathypantes nigrinus* (0.35), *Erigone dentipalpis* (0.33), *Micaria silesiaca* (0.33).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

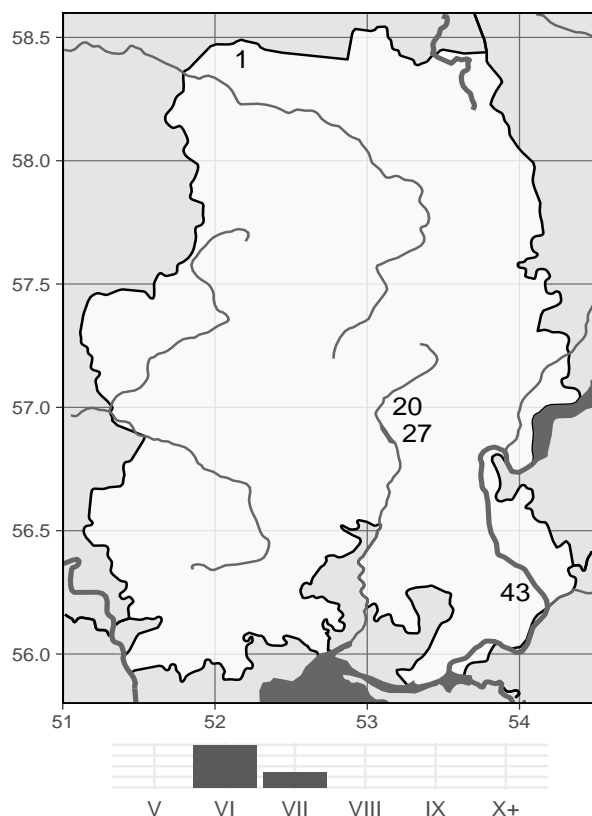


Fig. 142. Distribution map and phenology of *O. gibbosus*

Oedothorax retusus (Westring, 1851)

Material (Fig. 143): Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain *Quercus* forest, 1.VII.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, Unheated indoor spaces, 9.VIII.2010, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova.

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Oryphantes angulatus (O. Pickard-Cambridge, 1881)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

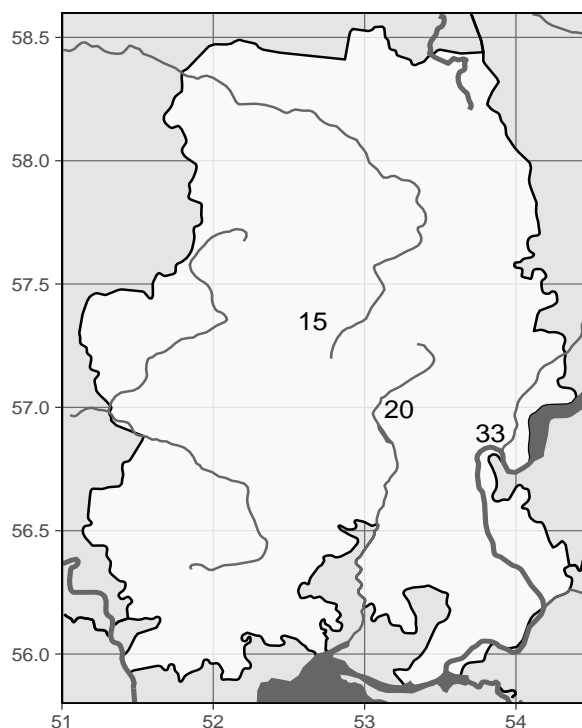


Fig. 143. Distribution map of *O. retusus*

Ostearius melanopygius (O. Pickard-Cambridge, 1880)

Material: Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, *Quercus-Tilia* forest, 4.VII.2016, leg. S.V. Dedyukhin.

Stratum: ground. Frequently in scree, compost and market gardens.

Range: Cosmopolitan Synanthropic.

Palliduphantes alutacius (Simon, 1884)

Material (Fig. 144): Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♂, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Tilia* forest, 3.VII.2014,

leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 4 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, 4 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, 3 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♂, 2 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 3 ♂, 4 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 4 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Biotope preferences: II – Woodlands (25 %), III – Upland coniferous forests (18 %), IV – *Pinus* forests (18 %), III – Upland *Tilia* forests (17 %), IV – *Tilia* forests (14 %).

Associated species. Quantitative: *Zelotes clivicola* (0.34), *Agroeca brunnea* (0.32), *Walckenaeria antica* (0.30), *Agyneta conigera* (0.27), *Diplostyla concolor* (0.21). **Qualitative:** *Tenuiphantes tenebricola* (0.54), *Zelotes clivicola* (0.44), *Diplostyla concolor* (0.42), *Agroeca brunnea* (0.36), *Agyneta affinis* (0.35).

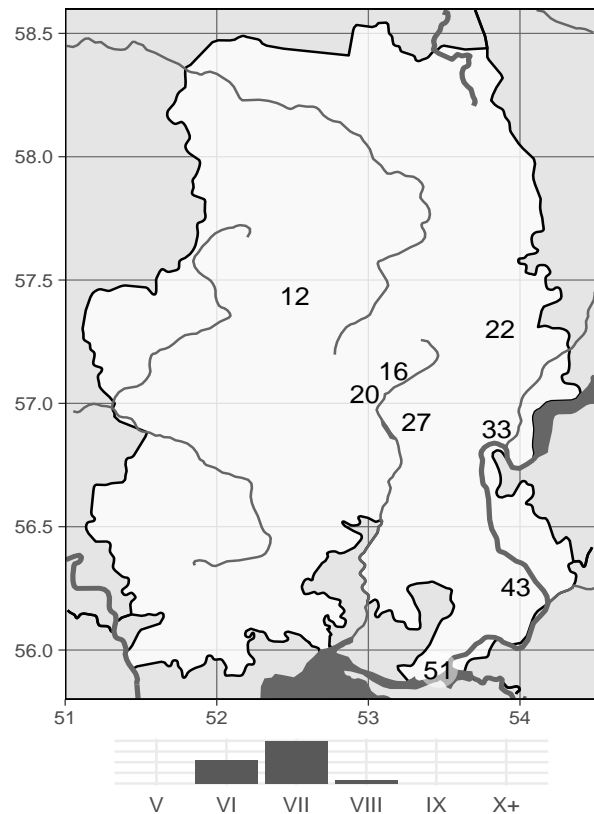


Fig. 144. Distribution map and phenology of *P. alutacius*

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Boreal-mountain.

***Panamomops mingei* Simon, 1926**

Material (Fig. 145): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♀, *Pinus* forest, 14.VI.2012, leg. A.N. Sozontov; 1 ♂, 3 ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 2 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva'

biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov.

Biotope preferences: IV – Floodplain broadleaved forests (18 %), III – Floodplain deciduous forests (10 %), I – All the habitats (4 %), II – Woodlands (3 %), II – Wetlands (2 %).

Associated species. Quantitative: *Crustulina guttata* (0.21), *Attulus saltator* (0.20), *Maso sundevalli* (0.19), *Cercidia prominens* (0.18), *Drassodes villosus* (0.17). **Qualitative:** *Haplodrassus silvestris* (0.34), *Abacoproeces saltuum* (0.31), *Crustulina guttata* (0.31), *Attulus saltator* (0.29), *Xysticus luctator* (0.25).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

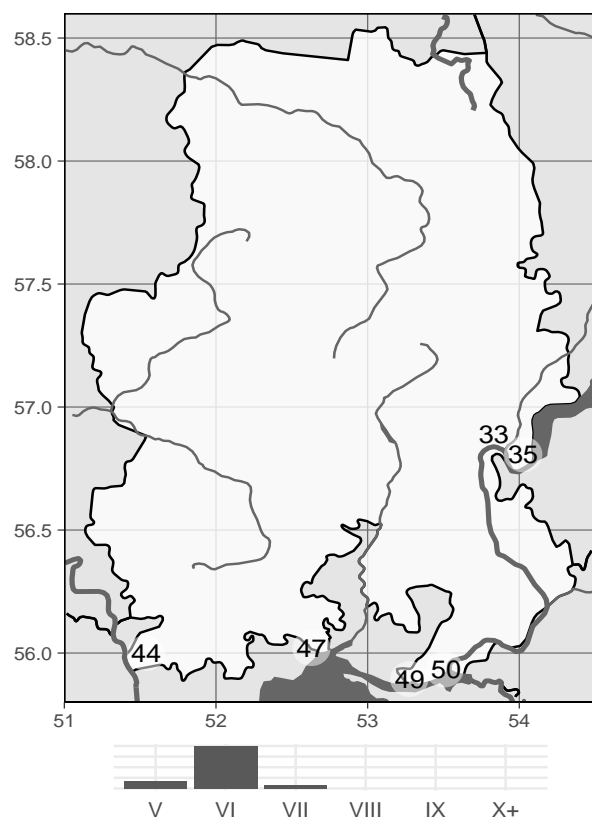


Fig. 145. Distribution map and phenology of *P. mengei*

Pelecopsis mengei (Simon, 1884)

Material (Fig. 146): Karakulino Distr.: Shignanda (50): 2 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Holarctic (Circum-Holarctic) Polyzoal.

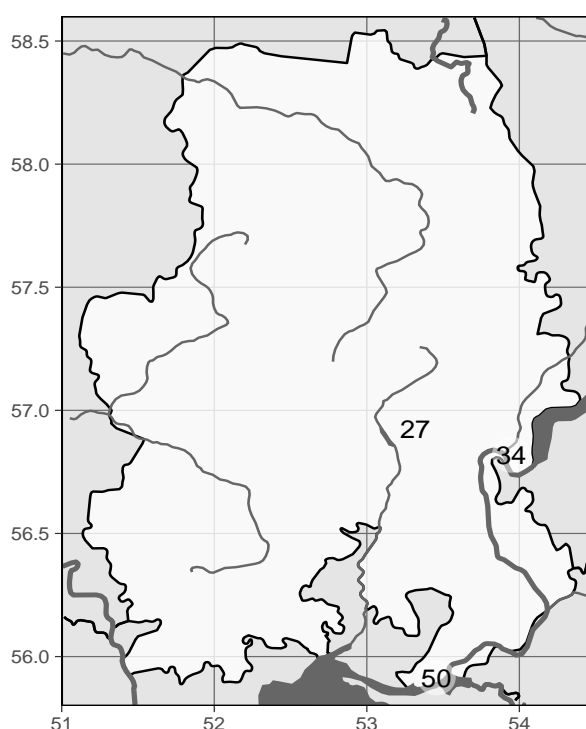


Fig. 146. Distribution map of *P. mengei*

Peponocranium praeceps Miller, 1943

Material: Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 25.VII.2012, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

Pityohyphantes phrygianus (C. L. Koch, 1836)

Material (Fig. 147): Balezino Distr.: Sergino (5): 1 ♀, faunistic record,

6.VI.2011, leg. S.V. Dedyukhin; Kez Distr.: Cheptsya (**7**): 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova.

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

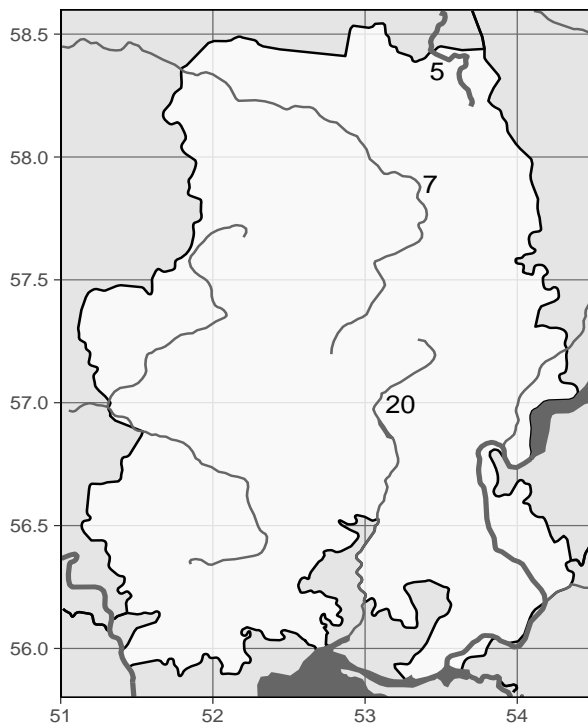


Fig. 147. Distribution map of *P. phrygianus*

Pocadicnemis pumila (Blackwall, 1841)

Material (Fig. 148): Igra Distr.: Novye Zyatci (**12**): 3 ♂, 6 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 4 ♀, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Chutyr (**13**): 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; Yakshur-Bodya Distr.: Selychka (**16**): 1 ♀, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (**1**): 3 ♀, *Abies-Picea* forest, 15.VII.2015,

leg. A.N. Sozontov; 4 ♀, wooded raised bog, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (**27**): 1 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

Associated species. Quantitative: *Pardosa sphagnicola* (0.19), *Antistea elegans* (0.19), *Oedothorax gibbosus* (0.17), *Pirata piscatorius* (0.12), *Macrargus carpenteri* (0.11). **Qualitative**: *Antistea elegans* (0.32), *Walckenaeria atrotibialis* (0.25), *Macrargus carpenteri* (0.21), *Bathyphantes nigrinus* (0.20), *Agyneta conigera* (0.19).

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

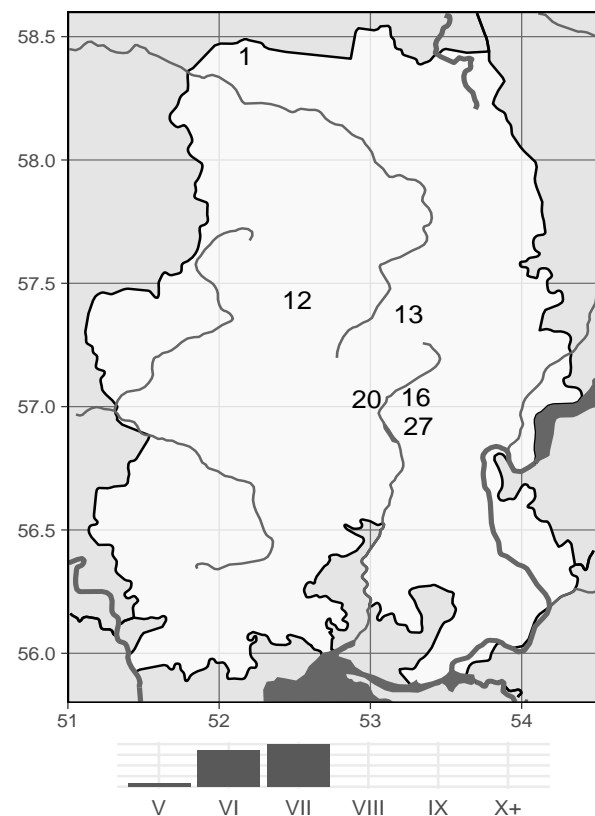


Fig. 148. Distribution map and phenology of *P. pumila*

Porrhomma convexum (Westring, 1851)

Material (Fig. 149): Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (**33**): 7 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashcheva; Yakshur-Bodya Distr.:

SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Holarctic (EastNearctic-WestPalaeartic) Temperate.

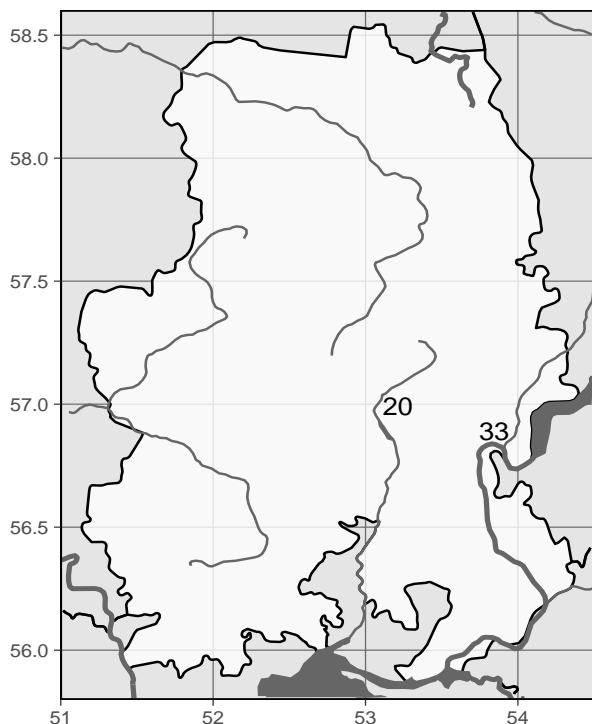


Fig. 149. Distribution map of *P. convexum*

Porrhomma microphthalmum (O. Pickard-Cambridge, 1871)

Material (Fig. 150): Votkinsk Distr.: Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Palaeartic (West-Central-Palaeartic) Subboreal.

Porrhomma pygmaeum (Blackwall, 1834)

Material (Fig. 151): Alnashy Distr.: Golushurma (47): 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova;

Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♂, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; 2 ♂, 3 ♀, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov; 2 ♂, 2 ♀, floodplain *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; 1 ♀, *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; Zavyalovo Distr.: Khohryaki (27): 2 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

Biotope preferences: III – Bogs (14 %), II – Wetlands (10 %), IV – Open raised bogs (9 %), I – All the habitats (5 %), IV – Floodplain *Quercus* forests (4 %).

Associated species. Quantitative: *Heliophanus cupreus* (0.29), *Silometopus elegans* (0.24), *Xysticus lanio* (0.23), *Ballus chalybeius* (0.17), *Microlinyphia pusilla* (0.16). **Qualitative:** *Silometopus elegans* (0.40), *Heliophanus cupreus* (0.25), *Xysticus lanio* (0.25), *Microlinyphia pusilla* (0.22), *Singa nitidula* (0.22).

Stratum: litter.

Range: Palaeartic (Trans-Palaeartic) Temperate.

Praestigia kulczynskii Eskov, 1979

Material: Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Holarctic (Sub-CircumHolarctic) Temperate.

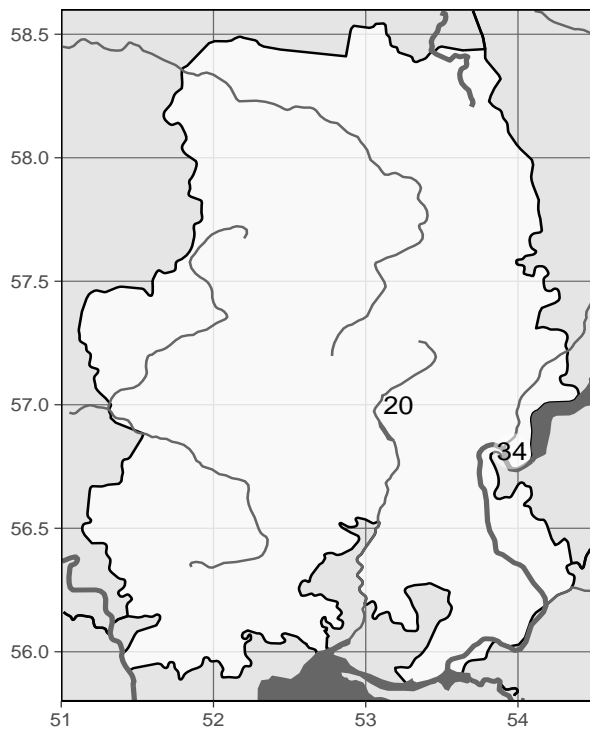


Fig. 150. Distribution map of *P. microphthalmum*

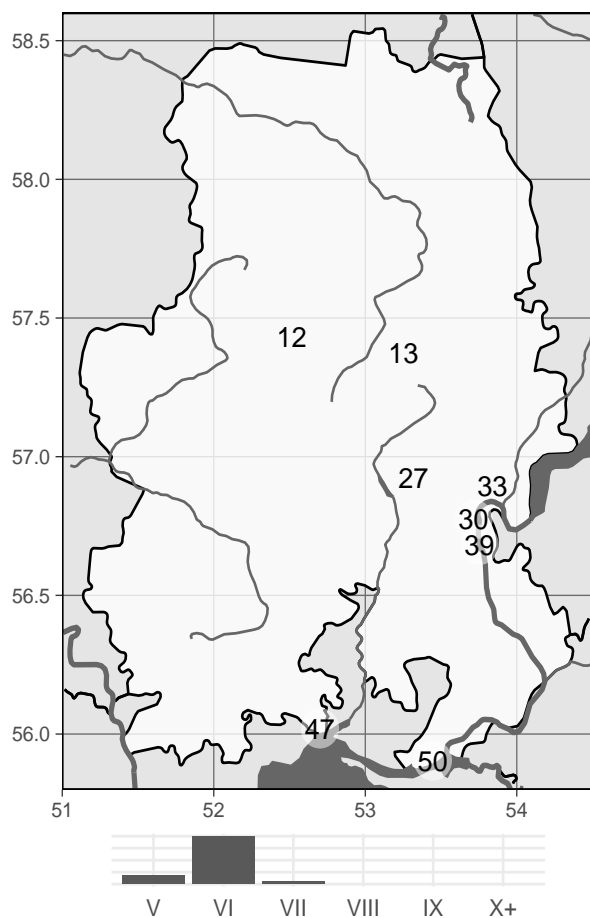


Fig. 151. Distribution map and phenology of *P. pygmaeum*

Saaristoa abnormis (Blackwall, 1841)

Material: Igra Distr.: Novye Zyatci (12): 1 ♂, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov

Stratum: litter, moss.

Range: Euro-Siberian (European) Boreal-mountain.

Sauron rayi (Simon, 1881)

Material: Alnashy Distr.: Golushurma (47): 1 ♂, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

Silometopus elegans (O. Pickard-Cambridge, 1873)

Material (Fig. 152): Alnashy Distr.: Golushurma (47): 2 ♂, open river bank, 21.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

Silometopus reussi (Thorell, 1871)

Material: Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, Unheated indoor spaces, 9.V.2010, leg. A.N. Sozontov.

Stratum: litter.

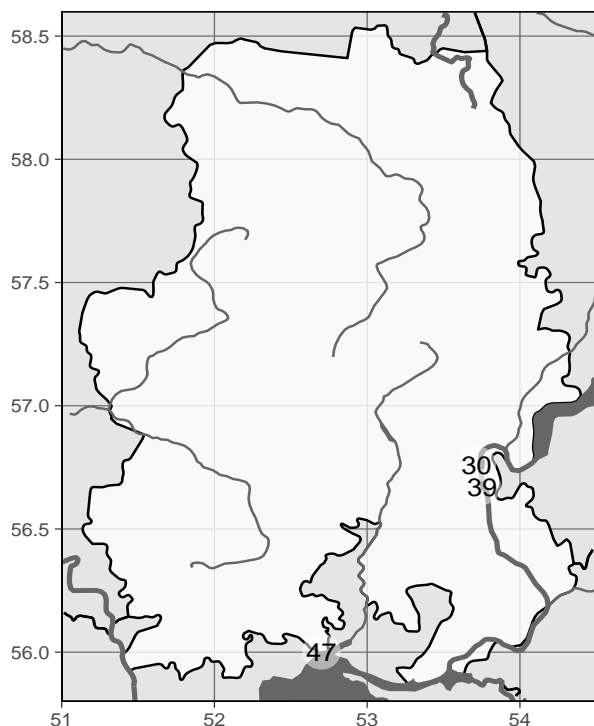
Range: Palaearctic (Trans-Palaearctic) Temperate.

Stemonyphantes conspersus (L. Koch, 1879)

Material: Sarapul Distr.: Sokolovka (43): 1 ♂, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin.

Stratum: shrub, canopy.

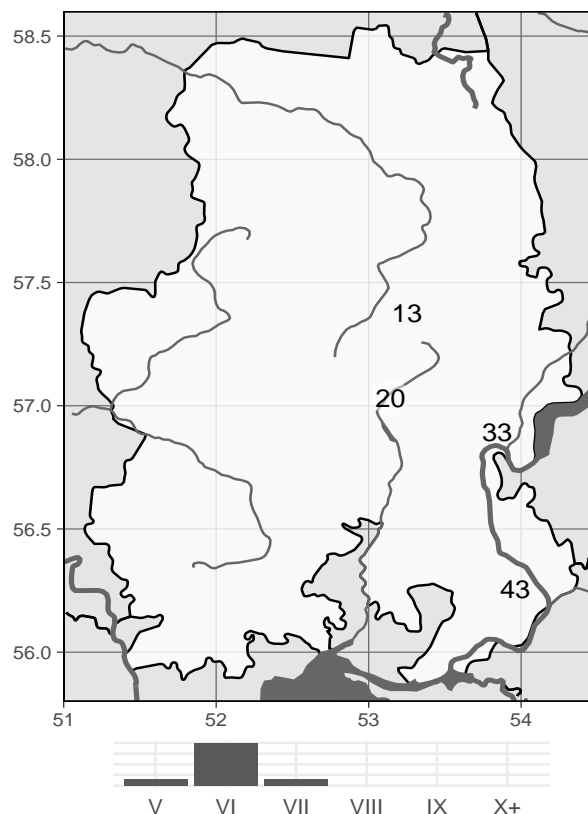
Range: Euro-Siberian (European-MiddleSiberian) Boreal-mountain.

Fig. 152. Distribution map of *S. elegans*

Stemonyphantes lineatus (Linnaeus, 1758)

Material (Fig. 153): Igra Distr.: Chutyry (13): 1 ♀, *Abies-Picea* forest, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 2 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova.

Associated species. Qualitative: *Arctosa figurata* (0.35), *Walckenaeria furcillata* (0.31), *Argenna subnigra* (0.27), *Ozyptila claveata* (0.25), *Zelotes pseudogallicus* (0.25).

Fig. 153. Distribution map and phenology of *S. lineatus*

Stratum: ground, herb.

Range: AncientMediterranean (European-CentralAsian) Subboreal-subarid.

Tallusia experta (O. Pickard-Cambridge, 1871)

Material: Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin.

Stratum: litter, moss.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

Tapinocyba affinis Lessert, 1907

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.

Tapinocyba biscissa (O. Pickard-Cambridge, 1873)

Material (Fig. 154): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 4 ♂, 3 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova.

Biotope preferences: IV – *Pinus* forests (29 %), III – Upland coniferous forests (26 %), II – Woodlands (13 %), I – All the habitats (6 %).

Associated species. Quantitative: *Centromerus incilium* (0.47), *Centromerus brevipalpus* (0.43), *Walckenaeria cucullata* (0.35), *Walckenaeria alticeps* (0.35), *Anguliphantes angulipalpis* (0.33). **Qualitative:** *Centromerus incilium* (0.64), *Centromerus brevipalpus* (0.48), *Walckenaeria cucullata* (0.47), *Walckenaeria alticeps* (0.46), *Macrargus rufus* (0.45).

Stratum: litter.

Range: Euro-Siberian (European) Subboreal.



Fig. 154. Phenology of *T. biscissa*

Tapinocyba insecta (L. Koch, 1869)

Material (Fig. 155): Igra Distr.: Chutyr (13): 2 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 3 ♂, 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

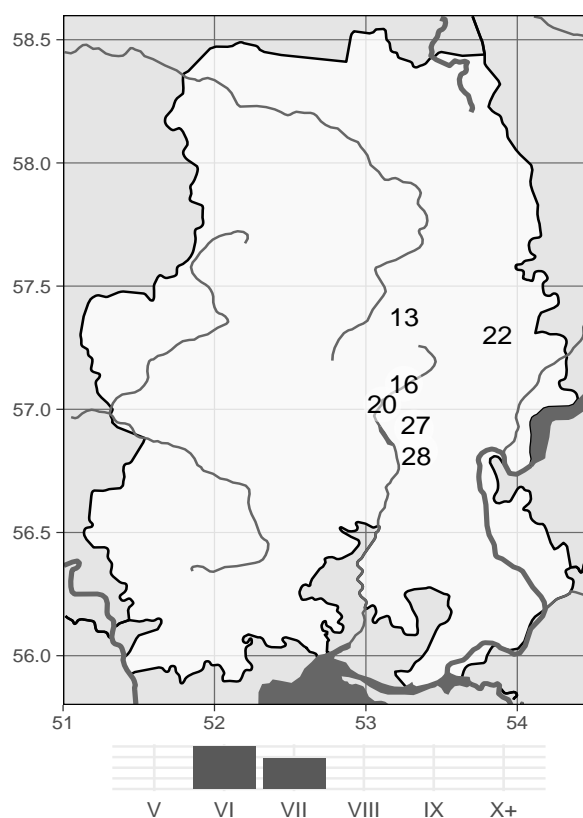


Fig. 155. Distribution map and phenology of *T. insecta*

Associated species. Quantitative: *Erigonella hiemalis* (0.24), *Hackmania prominula* (0.24), *Trochosa spinipalpis* (0.18), *Robertus lividus* (0.17), *Ceratinella brevipes* (0.17). **Qualitative:** *Agyneta affinis*

(0.34), *Diplocephalus picinus* (0.27), *Hahniana* (0.25), *Palliduphantes alutacius* (0.24), *Bathypantes gracilis* (0.24).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Tapinopa longidens (Wider, 1834)

Material (Fig. 156): Debesy Distr.: Baygurez (10): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 juv., *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♂, 1 juv., *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 juv., watershed coniferous forest, 28.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Floronia bucculenta* (0.27), *Clubiona caerulescens* (0.26), *Ero furcata* (0.22), *Entelecara acuminata* (0.14), *Erigonella hiemalis* (0.13). **Qualitative:** *Allomengea scopigera* (0.40), *Floronia bucculenta* (0.31), *Clubiona caerulescens* (0.27), *Ero furcata* (0.27), *Centromerus sylvaticus* (0.26).

Stratum: litter.

Range: Palaearctic (Amphi-Palaearctic) Subboreal.

Tenuiphantes alacris (Blackwall, 1853)

Material (Fig. 157): Debesy Distr.: Baygurez (10): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (Trans-EuroSiberian) Boreal-mountain.

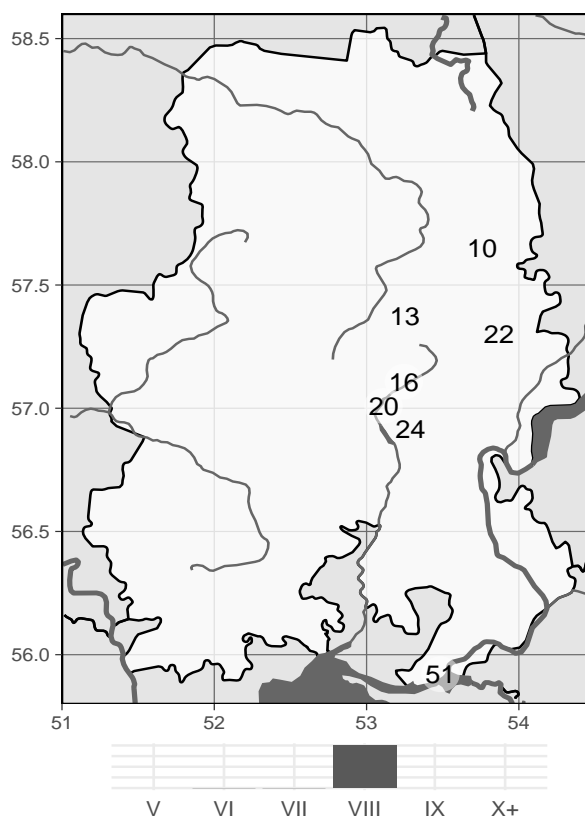


Fig. 156. Distribution map and phenology of *T. longidens*

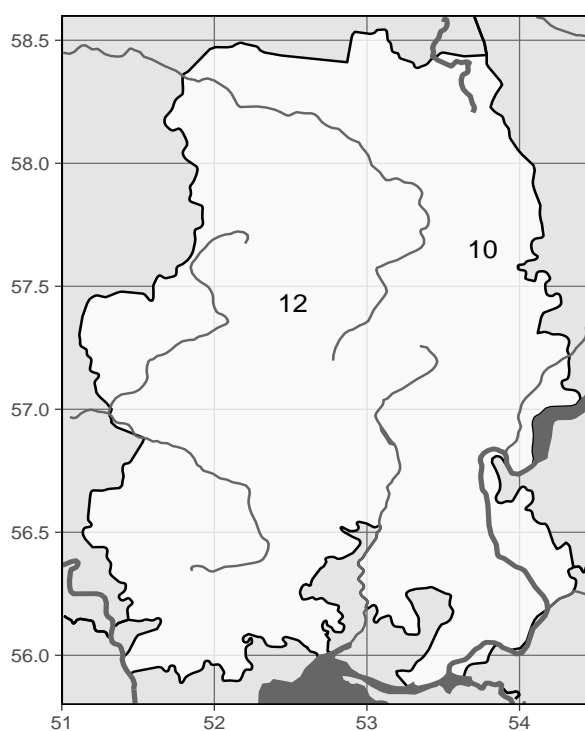


Fig. 157. Distribution map of *T. alacris*

Tenuiphantes cristatus (Menge, 1866)

Material: Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova.

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Tenuiphantes menzei (Kulczyński, 1887)

Material (Fig. 158): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, *Abies-Picea* forest, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 3 ♀, dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, edge of mixed forest, 8.IX.2012, leg. E.S. Shirobokova; 1 ♂, 5 ♀, dark coniferous forest with *Tilia*, 28.IX.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; 3 ♀, upland meadow, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, *Abies-Picea* forest, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, 1 ♀, floodplain *Quercus* forest, 27.VIII.2011, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 20.IX.2012, leg. A.N. Sozontov; 2 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 10 ♂, 5 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 8 ♂, 15 ♀, floodplain *Quercus* forest,

1.IX.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; SNT 'Sirius' (20): 3 ♀, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 3.VIII.2018, leg. S.A. Shirobokova.

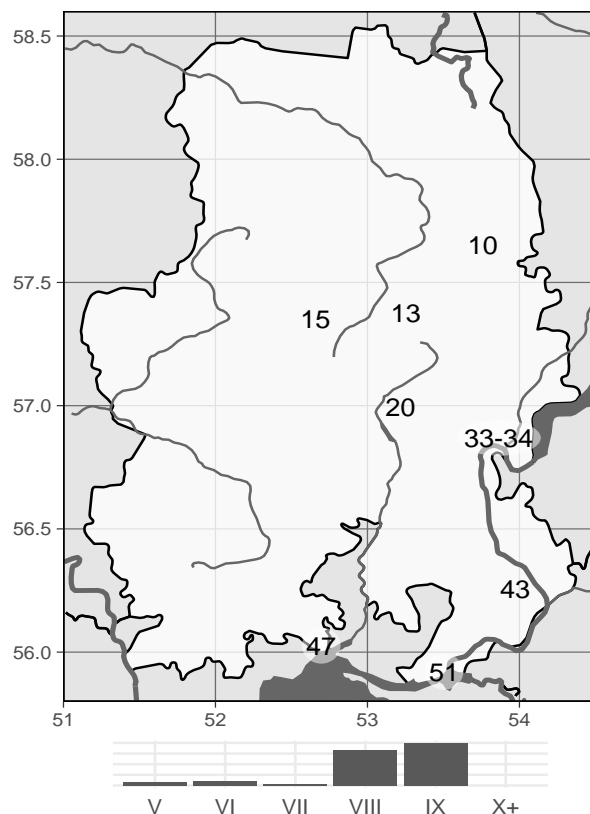


Fig. 158. Distribution map and phenology of *T. menzei*

Biotope preferences: IV – Floodplain *Quercus* forests (17 %), III – Floodplain deciduous forests (14 %), IV – Edges of mixed forests (13 %), II – Woodlands (12 %), I – All the habitats (10 %).

Associated species. Quantitative: *Allomengea scopigera* (0.28), *Tenuiphantes nigriventris* (0.15), *Linyphia triangularis* (0.14), *Bolyphantes alticeps* (0.12), *Drapetisca socialis* (0.10). **Qualitative:** *Helophora insignis* (0.23), *Drapetisca socialis* (0.21), *Bolyphantes*

alticeps (0.20), *Pachygnatha listeri* (0.19), *Allomengea scopigera* (0.18).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Tenuiphantes nigriventris (L. Koch, 1879)

Material (Fig. 159): Debesy Distr.: Baygurez (10): 1 ♀, 3 subadult ♂, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 2 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Izhevsk (24): 2 ♀, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♂, floodplain *Quercus* forest, 21.VIII.2011, leg. A.N. Sozontov; 1 ♂, 4 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 6 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 4 ♀, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 25-km Yakshur-Bodyinskiy trakt (18): 1 ♀, wooded raised bog, 15.IX.2009, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 2 ♂, 4 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (25 %), IV – Wooded raised bogs (22 %), IV – *Tilia* forests (18 %), II – Woodlands (10 %), I – All the habitats (6 %).

Associated species. Quantitative: *Allomengea scopigera* (0.29), *Robertus lividus* (0.22), *Microneta viaria* (0.20), *Trochosa spinipalpis* (0.18), *Tapinocyba*

insecta (0.17). **Qualitative:** *Microneta viaria* (0.27), *Allomengea scopigera* (0.26), *Tenuiphantes tenebricola* (0.24), *Trochosa spinipalpis* (0.24), *Diplocephalus picinus* (0.23).

Stratum: litter.

Range: Euro-Siberian (North European-Siberian) Boreal-mountain.

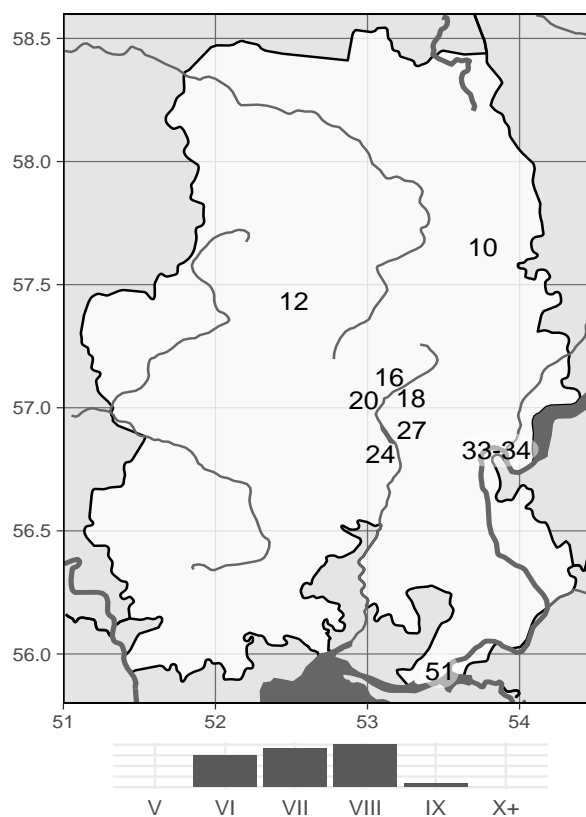


Fig. 159. Distribution map and phenology of *T. nigrivenreis*

Tenuiphantes tenebricola (Wider, 1834)

Material (Fig. 160): Izhevsk (24): 4 ♂, 1 ♀, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♂, *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♂, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 1.VII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 6.VII.2016, leg. S.V. Dedyukhin;

1 ♂, floodplain *Quercus* forest, 7.VII.2016, leg. A.V. Uskova; 2 ♂, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 12 ♂, 5 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 8 ♂, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 1 ♂, 1 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 7 ♂, 5 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 9 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 6 ♂, 5 ♀, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; 15 ♂, 14 ♀, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, 6 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 3 ♂, 7 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 31.V.2018, leg. S.A. Shirobokova; 2 ♂, 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 5 ♂, 5 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 10 ♂, 14 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 21 ♂, 26 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 5 ♀, watershed coniferous forest, 14.VIII.2018, leg. S.A. Shirobokova; 11 ♂, 15 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus*

forest, 27.VI.2017, leg. S.A. Shirobokova; 2 juv., *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 2 ♂, 2 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov.

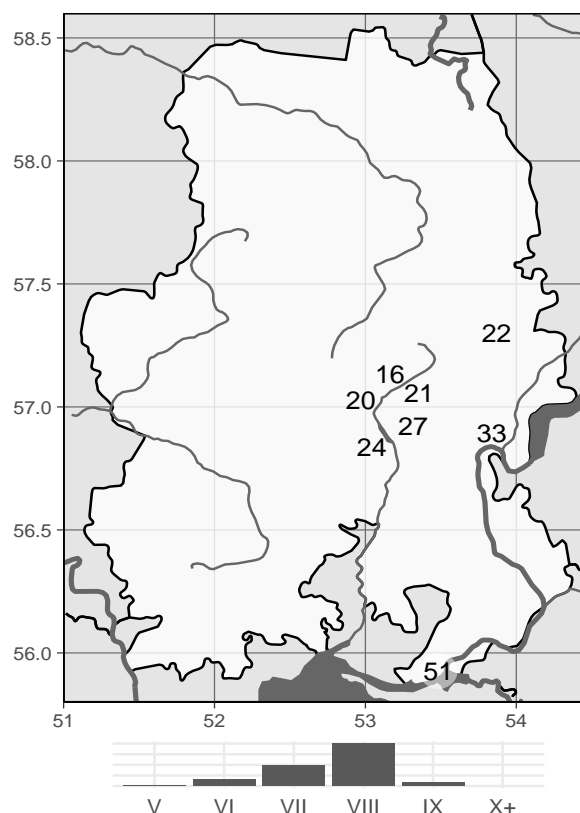


Fig. 160. Distribution map and phenology of *T. tenebricola*

Biotope preferences: III – Upland *Tilia* forests (50 %), IV – *Tilia* forests (44 %), II – Woodlands (37 %), I – All the habitats (17 %), IV – *Pinus* forests (14 %).

Associated species. Quantitative: *Zelotes clivicola* (0.27), *Allomengea scopigera* (0.25), *Zelotes subterraneus* (0.22), *Trochosa terricola* (0.19), *Zelotes petrensis* (0.18). **Qualitative:** *Palliduphantes alutacius* (0.54), *Microneta viaria* (0.42), *Zelotes clivicola* (0.42), *Trochosa terricola* (0.40), *Robertus lividus* (0.39).

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Temperate.

Thyreosthenius parasiticus (Westring, 1851)

Material (Fig. 161): Karakulino Distr.: Ust'-Belsk (51): 2 ♀, faunistic record, 4.VIII.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 6 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova.

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

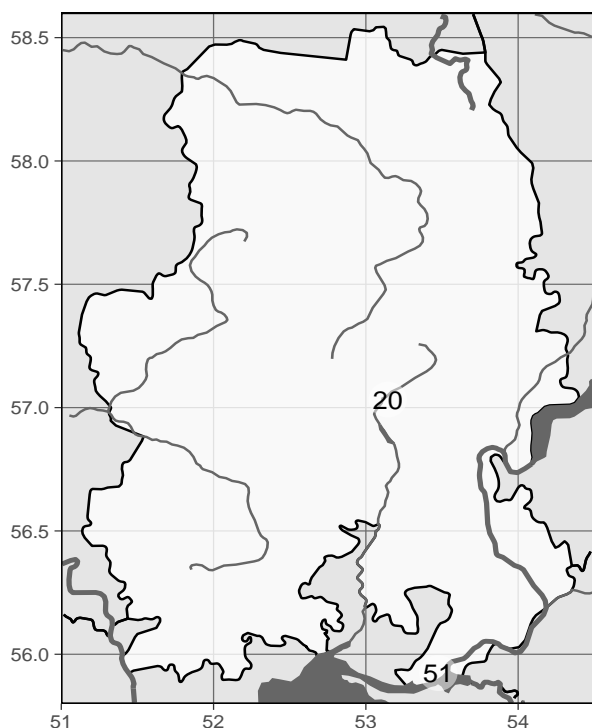


Fig. 161. Distribution map of *T. parasiticus*

Tibioplus diversus (L. Koch, 1879)

Material (Fig. 162): Igra Distr.: Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 28.IX.2012, leg. E.S. Shirobokova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova.

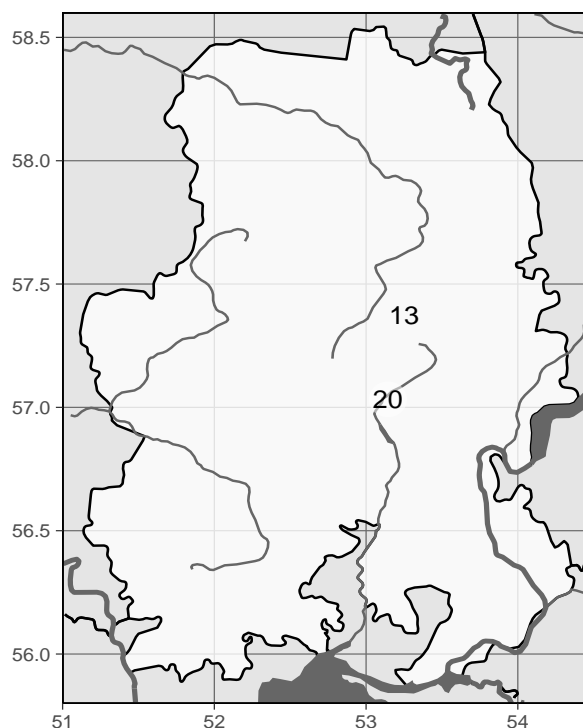


Fig. 162. Distribution map of *T. diversus*

Associated species. Qualitative: *Centromerus brevipalpus* (0.40), *Macrargus carpenteri* (0.38), *Oedothorax apicatus* (0.36), *Agyneta conigera* (0.33), *Zelotes exiguus* (0.29).

Stratum: litter.

Range: Holarctic (EuroSiberian-WestNearctic) Boreal-mountain.

Trematocephalus cristatus (Wider, 1834)

Material (Fig. 163): Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashcheva; Noviy (35): 1 ♂, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀,

Pinus forest, 17.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♀, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Associated species. Qualitative: *Zelotes exiguus* (0.24), *Bathypantes nigrinus* (0.20), *Robertus arundineti* (0.17), *Alopecosa sulzeri* (0.17), *Linyphia hortensis* (0.17).

Stratum: canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

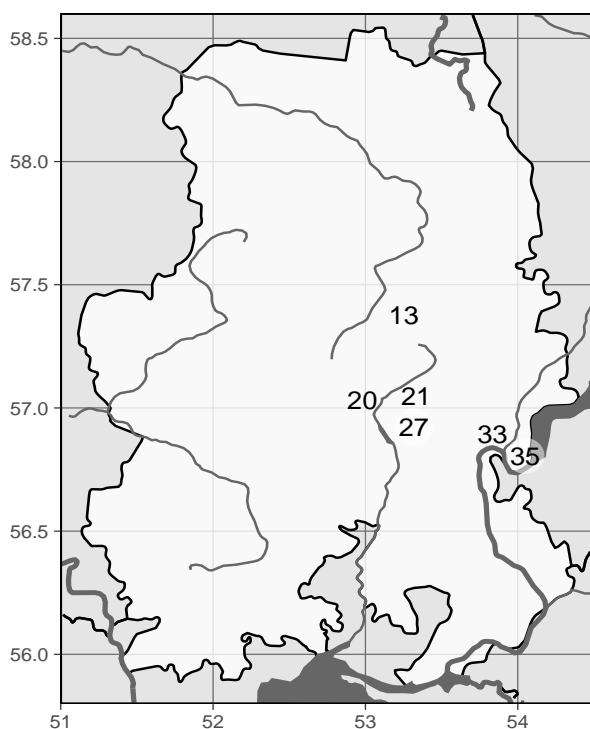


Fig. 163. Distribution map of *T. cristatus*

***Trichoncus affinis* Kulczyński, 1894**

Material: Alnashy Distr.: Golushurma (47): 12 ♂, 4 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♂, 1 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov.

Stratum: litter.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

***Trichoncus vasconicus* Denis, 1944**

Material: Alnashy Distr.: Golushurma (47): 9 ♂, 2 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 3 ♂, 2 ♀, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov.

Stratum: litter.

Range: Palaearctic (West-Palaearctic) Subboreal.

***Trichopterna cito* (O. Pickard-Cambridge, 1873)**

Material: Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov.

Stratum: litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

***Troxochrota scabra* Kulczyński, 1894**

Material (Fig. 164): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Stratum: litter.

Range: Euro-Siberian (European) Temperate.

***Troxochrus scabriculus* (Westring, 1851)**

Material (Fig. 165): Alnashy Distr.: Golushurma (47): 3 ♀, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 28.IX.2012, leg. E.S. Shirobokova; 2 ♂, 12 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VII.2012, A.A. Ivanova.

Stratum: litter.

Range: Palaearctic (West-Palaearctic) Subboreal.

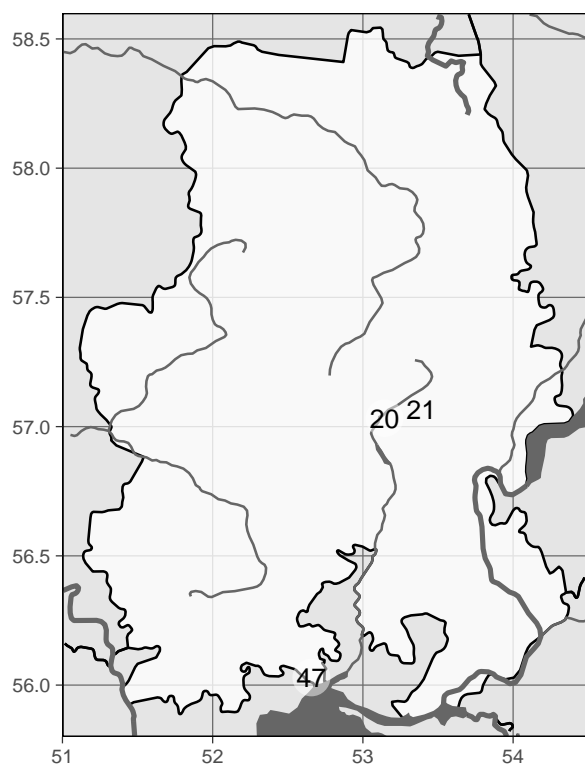


Fig. 164. Distribution map of *T. scabra*

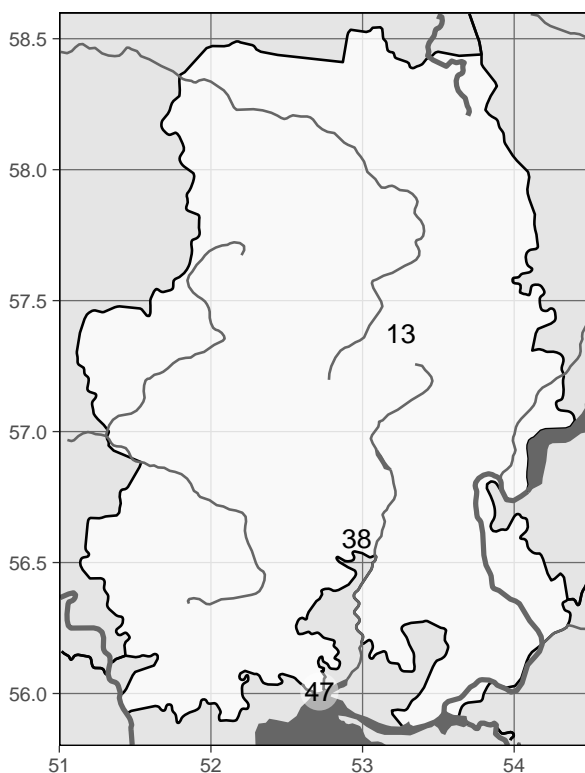


Fig. 165. Distribution map of *T. scabriculus*

Walckenaeria alticeps (Denis, 1952)

Material (Fig. 166): Igra Distr.: Novye Zyatci (12): 1 ♀, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 6 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 3 ♂, 1 ♀, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 5 ♂, 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 3 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

Biotopic preferences: II – Woodlands (10 %), III – Bogs (7 %), I – All the habitats (7 %), IV – Open raised bogs (6 %), IV – *Pinus* forests (5 %).

Associated species. Quantitative: *Walckenaeria cucullata* (0.38), *Agroeca brunnea* (0.37), *Tapinocyba biscissa* (0.35), *Anguliphantes angulipalpis* (0.35), *Centromerus incilium* (0.31). **Qualitative:** *Tapinocyba biscissa* (0.46), *Zelotes pseudogallicus* (0.45), *Agroeca brunnea* (0.41), *Anguliphantes angulipalpis* (0.38), *Centromerus brevipalpus* (0.35).

Stratum: litter.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

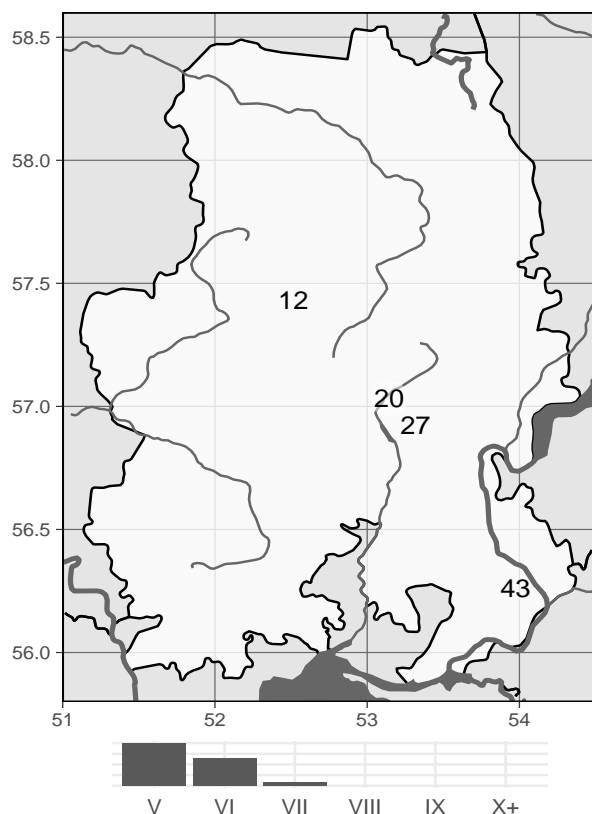


Fig. 166. Distribution map and phenology of *W. alticeps*

***Walckenaeria antica* (Wider, 1834)**

Material (Fig. 167): Glazov

Distr.: Lyum (4): 1 ♀, faunistic record, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 2 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 10.V.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 3 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova;

1 ♀, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 6 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 2 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, 1 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova.

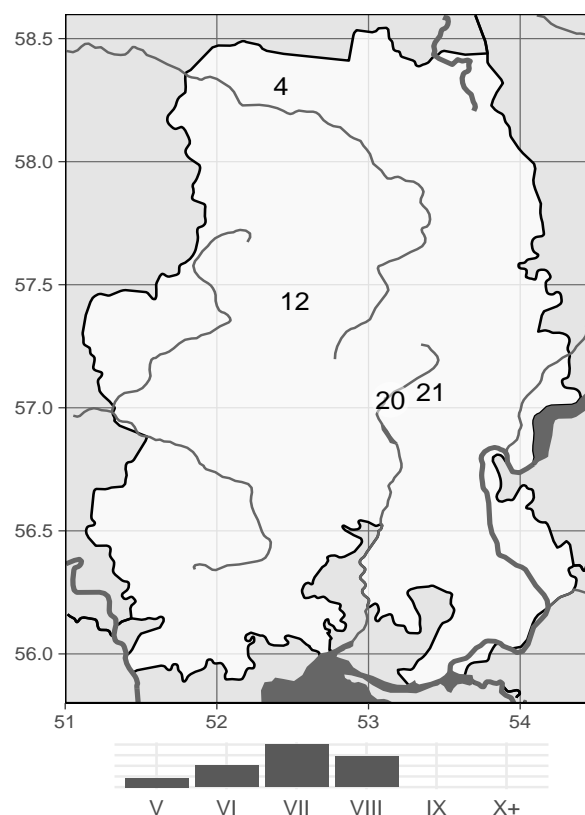


Fig. 167. Distribution map and phenology of *W. antica*

Biotope preferences: III – Bogs (14 %), IV – Open raised bogs (13 %), II – Woodlands (13 %), IV – *Pinus* forests (12 %), III – Upland coniferous forests (10 %).

Associated species. Quantitative: *Palliduphantes alutacius* (0.30), *Centromerus incilium* (0.21), *Xysticus luctuosus* (0.21), *Robertus lividus* (0.20), *Agyneta conigera* (0.17). **Qualitative:**

Tenuiphantes tenebricola (0.36), *Trochosa terricola* (0.33), *Minyriolus pusillus* (0.33), *Palliduphantes alutacius* (0.33), *Zelotes clivicola* (0.31).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Walckenaeria atrotibialis (O. Pickard-Cambridge, 1878)

Material (Fig. 168): Alnashy Distr.: Golushurma (**47**): 10 ♂, 2 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (**12**): 2 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 1 ♂, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; 1 ♀, open raised bog, 1.VII.2015, leg. A.N. Sozontov; 1 ♂, 1 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (**50**): 1 ♂, 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (**22**): 5 ♂, 1 ♀, watershed coniferous forest, 28.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (**16**): 2 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 1 ♂, 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (**21**): 1 ♂, 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (**1**): 1 ♂, 6 ♀, *Abies-Picea* forest, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki

(**27**): 23 ♂, 8 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 19 ♂, 8 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 2 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♀, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (37 %), IV – *Tilia* forests (30 %), II – Woodlands (21 %), IV – *Abies-Picea* forests (10 %), I – All the habitats (10 %).

Associated species. Quantitative: *Bathyphantes gracilis* (0.56), *Diplocephalus picinus* (0.55), *Ozyptila trux* (0.39), *Diplostyla concolor* (0.38), *Agyneta olivacea* (0.34). **Qualitative:** *Diplocephalus picinus* (0.43), *Bathyphantes gracilis* (0.38), *Agyneta subtilis* (0.37), *Euryopsis flavomaculata* (0.35), *Metapanamomops kaestneri* (0.34).

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

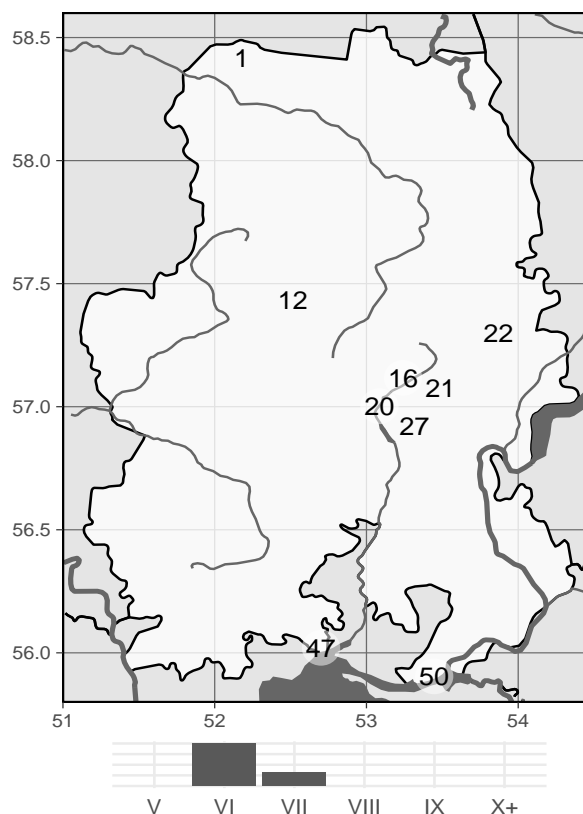


Fig. 168. Distribution map and phenology of *W. atrotibialis*

Walckenaeria cucullata (C. L. Koch, 1836)

Material (Fig. 169): Alnashy Distr.: Golushurma (**47**): 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 4 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 6 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (**21**): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Biotope preferences: IV – *Pinus* forests (35 %), III – Upland coniferous forests (33 %), II – Woodlands (20 %), I – All the habitats (8 %), IV – Floodplain broadleaved forests (1 %).

Associated species. Quantitative: *Centromerus incilium* (0.38), *Walckenaeria alticeps* (0.38), *Centromerus brevipalpus* (0.38), *Zelotes pseudogallicus* (0.35), *Tapinocyba biscissa* (0.35). **Qualitative:** *Tapinocyba biscissa* (0.47), *Zelotes clivicola* (0.46), *Hahnia pusilla* (0.43),

Macrargus carpenteri (0.43), *Agyneta conigera* (0.40).

Stratum: litter, moss.

Range: Euro-Siberian (European-WestSiberian) Temperate.

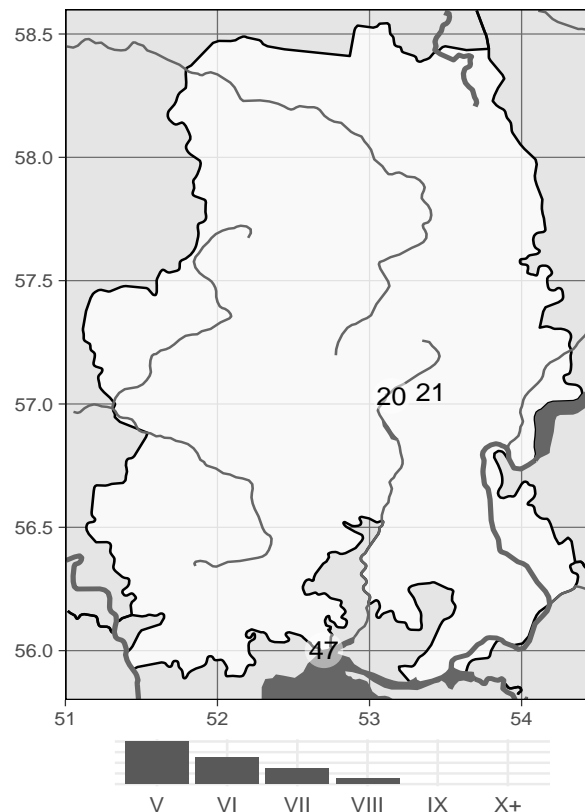


Fig. 169. Distribution map and phenology of *W. cucullata*

Walckenaeria dysderoides (Wider, 1834)

Material (Fig. 170): Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; Siva's delta (**34**): 2 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova.

Stratum: litter, moss.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Walckenaeria furcillata (Menge, 1869)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova;

1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 3.VIII.2018, leg. S.A. Shirobokova.

Associated species. Qualitative: *Zelotes pseudogallicus* (0.46), *Titanoeca schineri* (0.43), *Mastigusa arietina* (0.36), *Argenna subnigra* (0.32), *Stemonyphantes lineatus* (0.31).

Stratum: litter.

Range: Palearctic (Amphi-Palearctic) Subboreal.

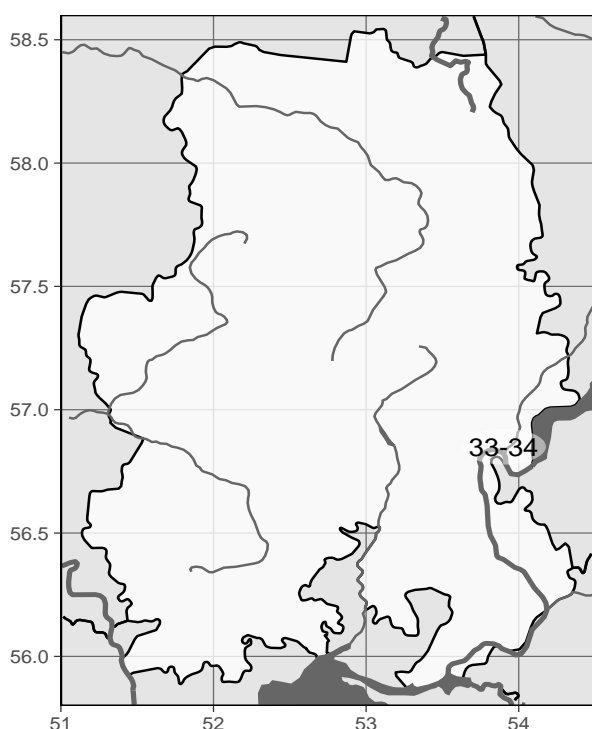


Fig. 170. Distribution map of *W. dysderoides*

Walckenaeria lepida (Kulczyński, 1885)

Material: Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

Walckenaeria mitrata (Menge, 1868)

Material (Fig. 171): Votkinsk Distr.: Noviy (35): 1 ♀, *Tilia* forest, 12.VI.2010,

leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Stratum: litter, moss.

Range: Euro-Siberian (European) Temperate.

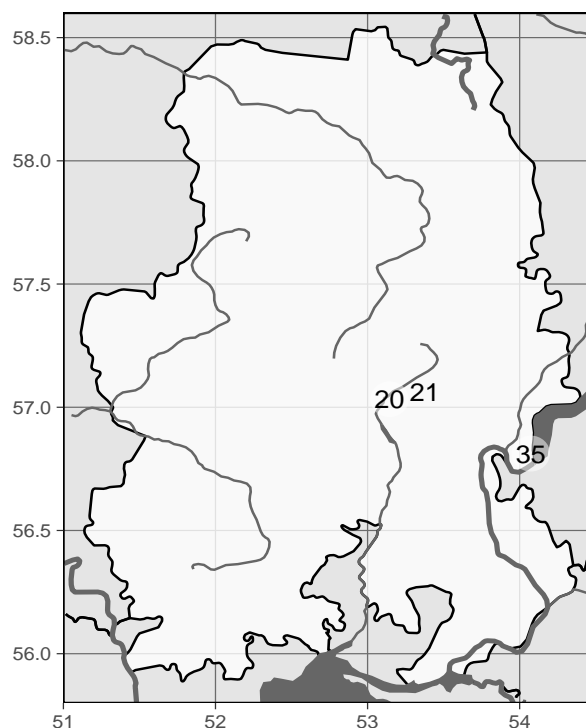


Fig. 171. Distribution map of *W. mitrata*

Walckenaeria nudipalpis (Westring, 1851)

Material: Karakulino Distr.: Shignanda (50): 1 ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

Walckenaeria picetorum (Palmgren, 1976)

Material: Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova.

Stratum: litter (moss).

Range: Euro-Siberian (North European-Siberian) Boreal.

***Walckenaeria vigilax* (Blackwall, 1853)**

Material (Fig. 172): Igra Distr.: Chutyr (13): 1 ♂, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov.

Stratum: litter.

Range: Holarctic (Sub-CircumHolarctic) Temperate

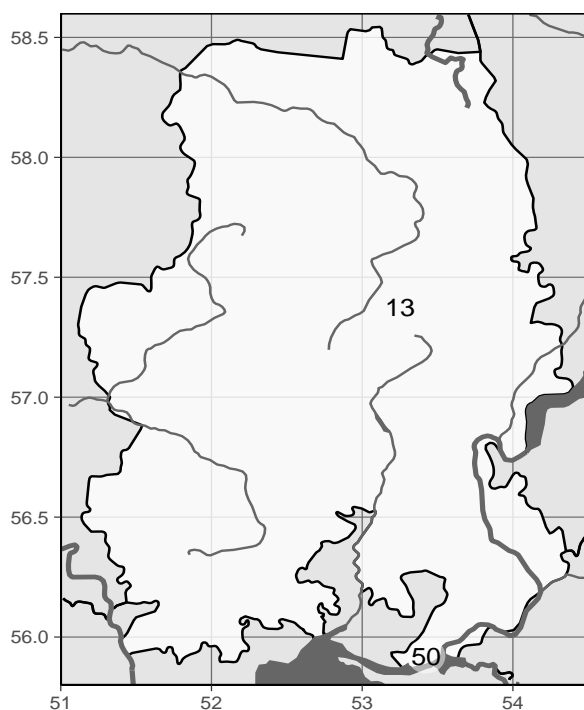


Fig. 172. Distribution map of *W. vigilax*

3.11. LIOCRANIDAE

***Agroeca brunnea* (Blackwall, 1833)**

Material (Fig. 173): Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 6.VII.2012, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. A.N. Sozontov;

Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, watershed coniferous forest, 10.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 4 ♂, 2 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 5.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 5 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 2 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 2 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova.

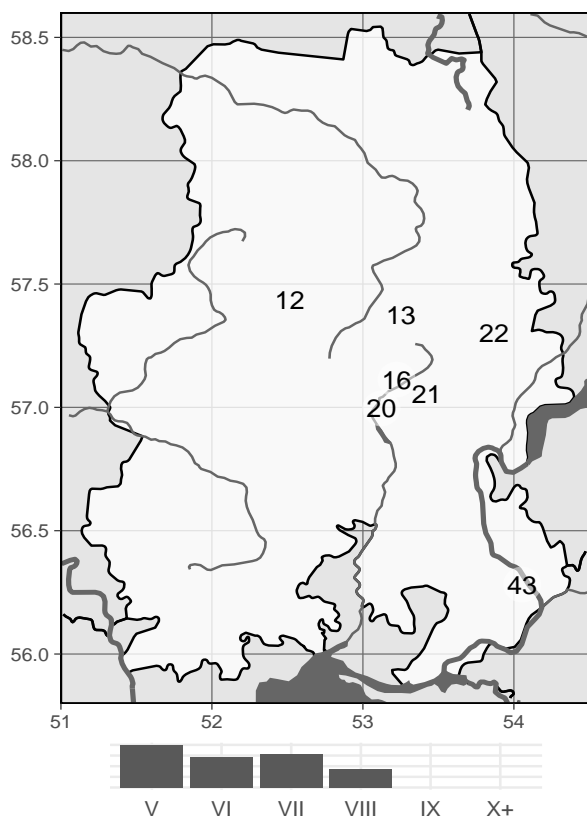


Fig. 173. Distribution map and phenology of *A. brunnea*

Biotope preferences: III – Upland coniferous forests (27 %), II – Woodlands (26 %), IV – *Pinus* forests (24 %), I – All the habitats (14 %), IV – *Abies-Picea* forests (3 %).

Associated species. Quantitative: *Walckenaeria alticeps* (0.37), *Walckenaeria cucullata* (0.34), *Palliduphantes alutacius* (0.32), *Zelotes petrensis* (0.29), *Zelotes clivicola* (0.28). **Qualitative:** *Zelotes clivicola* (0.47), *Zelotes petrensis* (0.43), *Walckenaeria alticeps* (0.41), *Zelotes subterraneus* (0.40), *Trochosa terricola* (0.39).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Agroeca cuprea Menge, 1873

Material (Fig. 174): Alnashy Distr.: Golushurma (**47**): 6 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N.

Sozontov; 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 8 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 30.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 1 ♂, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (**51**): 1 ♀, sloping steppe meadow, 9.VII.2011, leg. S.V. Dedyukhin; Sarapul Distr.: Sokolovka (**43**): 2 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin.

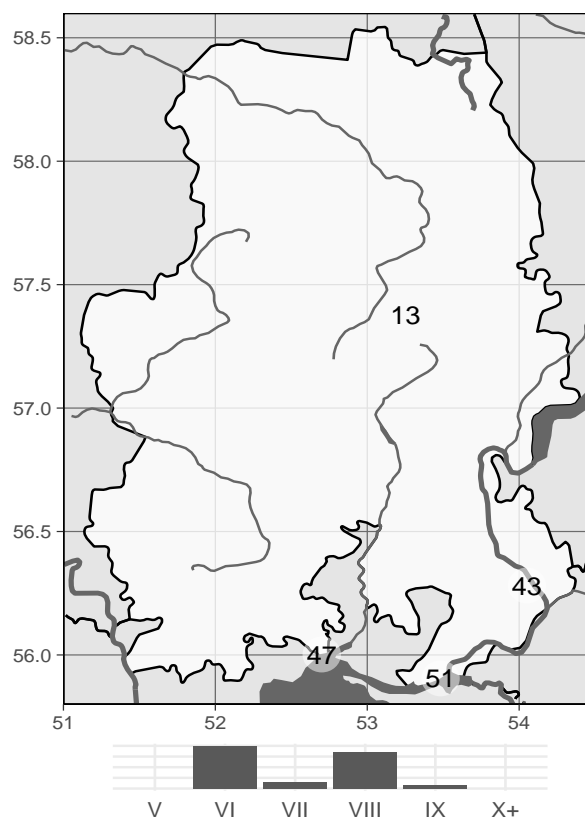


Fig. 174. Distribution map and phenology of *A. cuprea*

Biotope preferences: IV – Floodplain broadleaved forests (15 %), III – Floodplain deciduous forests (7 %), I – All the habitats (6 %), II – Meadowlands (4 %), III – Dry meadows (3 %).

Associated species. Quantitative: *Trichoncus affinis* (0.35), *Agroeca lusatica* (0.30), *Megalepthyphantes pseudocollinus* (0.25), *Drassodes pubescens* (0.24), *Asagena phalerata* (0.15). **Qualitative:** *Agroeca lusatica* (0.45), *Drassodes pubescens* (0.41), *Arctosa lutetiana* (0.25), *Haplodrassus signifer* (0.25), *Megalepthyphantes pseudocollinus* (0.25).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal.

Agroeca lusatica (L. Koch, 1875)

Material (Fig. 175): Karakulino Distr.: Byrgynda (**49**): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (**43**): 4 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (**33**): 1 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova.

Associated species. Quantitative: *Drassodes pubescens* (0.40), *Agroeca cuprea* (0.30), *Bolyphantes alticeps* (0.29), *Arctosa lutetiana* (0.25), *Zelotes azsheganovae* (0.22). **Qualitative:** *Drassodes pubescens* (0.48), *Agroeca cuprea* (0.45), *Ozyptila claveata* (0.35),

Arctosa lutetiana (0.33), *Arctosa stigmosa* (0.25).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal.

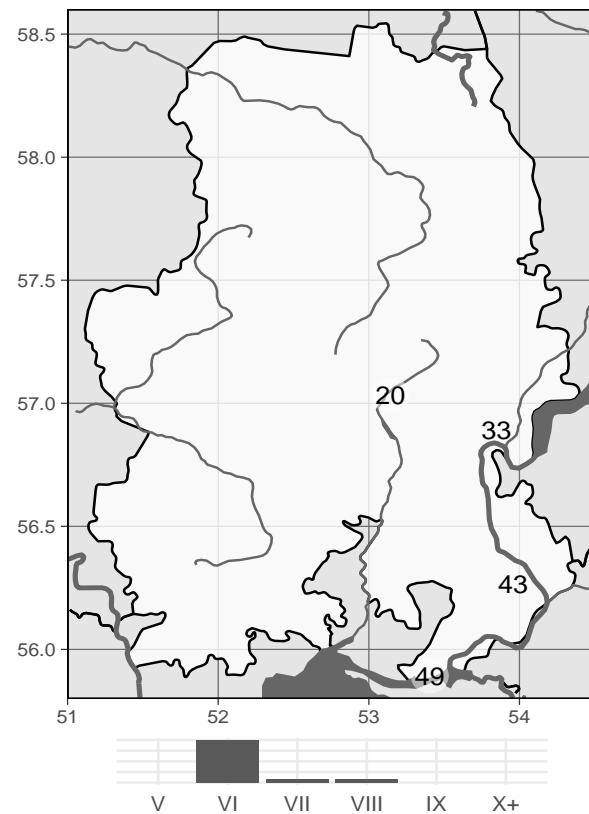


Fig. 175. Distribution map and phenology of *A. lusatica*

Agroeca makarovae Esyunin, 2008

Material: Sarapul Distr.: Sokolovka (**43**): 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin

Stratum: ground

Range: Euro-Siberian (East European) Temperate

Agroeca proxima (O. Pickard-Cambridge, 1871)

Material (Fig. 176): Alnashy Distr.: Golushurma (**47**): 1 ♂, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 1 ♀, *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (**51**): 4 ♂,

Pinus forest, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (**43**): 1 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 8 ♂, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 8 ♂, 2 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 9 ♂, 3 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; 7 ♂, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 7 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; 2 ♂, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; 8 ♂, upland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♂, floodplain *Quercus* forest, 21.VIII.2011, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 6 ♂, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (**16**): 1 ♂, 1 ♀, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (**20**): 23 ♂, 2 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 21 ♂, 2 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 14 ♂, 2 ♀, watershed coniferous forest, 14.VIII.2018, leg. S.A. Shirobokova; 5 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 9 ♂, 4 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (**21**): 1 ♂, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova.

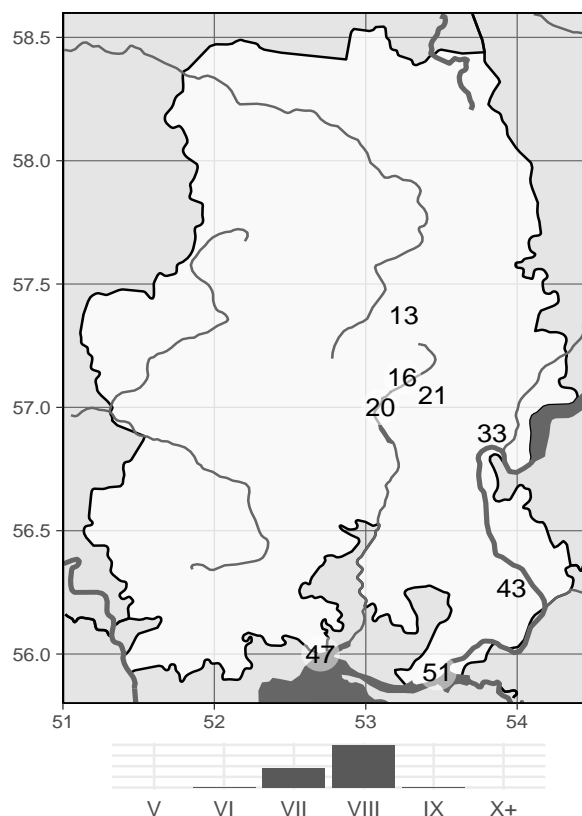


Fig. 176. Distribution map and phenology of *A. proxima*

Biotopic preferences: I – All the habitats (12 %), II – Woodlands (9 %), III – Upland coniferous forests (6 %), IV – Floodplain hygrophytic meadows (6 %), IV – *Pinus* forests (4 %).

Associated species. Quantitative: *Agyneta conigera* (0.25), *Trochosa terricola* (0.20), *Tenuiphantes tenebricola* (0.16), *Zelotes subterraneus* (0.14), *Allomengea scopigera* (0.13). **Qualitative:** *Tenuiphantes tenebricola* (0.37), *Allomengea scopigera* (0.37), *Walckenaeria antica* (0.27), *Zelotes petrensis* (0.26), *Megalephyphantes pseudocollinus* (0.26).

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

3.12. LYCOSIDAE

Acantholycosa lignaria (Clerck, 1757)

Material (Fig. 176): Igra Distr.: Novye Zyatci (12): 1 ♂, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, Unheated indoor spaces, 6.VI.2011, leg. A.N. Sozontov; 1 ♂, Unheated indoor spaces, 20.V.2012, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 4 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

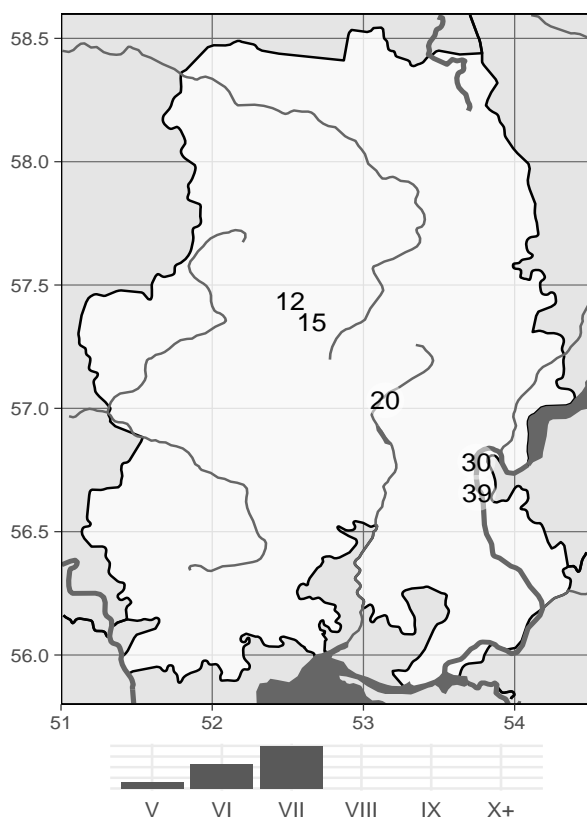


Fig. 177. Distribution map and phenology of *A. lignaria*

Associated species. Quantitative: *Diplocephalus latifrons* (0.40), *Thanatus*

sabulosus (0.35), *Silometopus elegans* (0.25), *Bathyphantes parvulus* (0.24), *Centromerus incilium* (0.22). **Qualitative:** *Silometopus elegans* (0.36), *Diplocephalus latifrons* (0.35), *Agyneta subtilis* (0.26), *Clubiona reclusa* (0.25), *Macrargus carpenteri* (0.22).

Stratum: tree stems.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

Allohogna singoriensis (Laxmann, 1770)

Material: Alnashy Distr.: Golushurma (47): 1 subadult ♂, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov.

Stratum: ground (burrow).

Range: Palaearctic (West-Central-Palaearctic) Subarid.

Remarks: there are more points of occurrence in literature [Adakhovskiy et al., 2012] with no collected material from there (Fig. 178). Currently, most of them need to be proved by collected specimens.

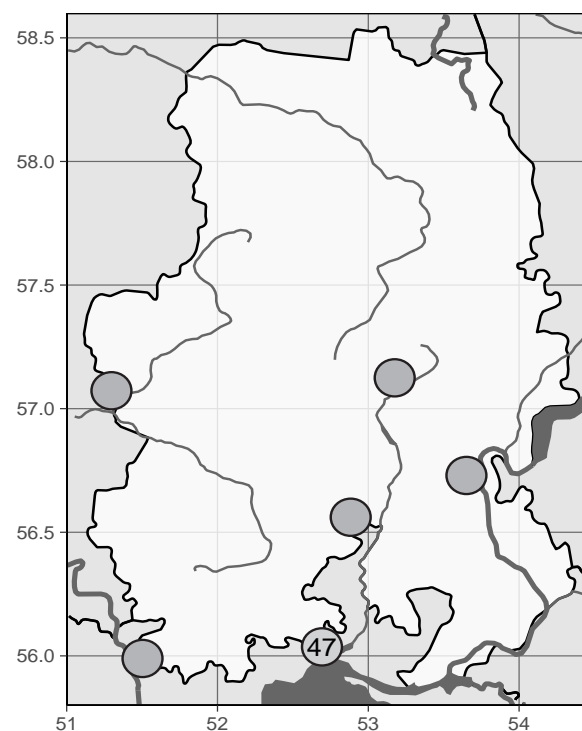


Fig. 178. Distribution map of *A. singoriensis* [Adakhovskiy et al., 2012]

Alopecosa aculeata (Clerck, 1757)

Material (Fig. 179): Igra Distr.: Novye Zyatci (12): 1 ♂, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; 14 ♂, 2 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 56 ♂, 5 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 3 ♂, open raised bog, 1.VII.2015, leg. A.N. Sozontov; 31 ♂, 4 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, *Pinus* forest, 16.VIII.2009, leg. A.N. Sozontov; Bima (42): 1 ♂, 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 2 ♂, 1 ♀, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; 4 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 14 ♀, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 8 ♂, 2 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 28 ♂, 3 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 9 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 5 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 9 ♂, 2 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 28 ♂, 1 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 22 ♂, 3 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 21 ♂, 7 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 28 ♂, 3 ♀, *Pinus* forest,

1.VII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 15 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 74 ♂, 17 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 5 ♂, 2 ♀, *Pinus* forest, 4.VII.2017, leg. S.A. Shirobokova; 11 ♂, 4 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 29 ♂, 6 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 6 ♀, *Pinus* forest, 24.VII.2017, leg. S.A. Shirobokova; 57 ♂, 13 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 57 ♂, 5 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 7 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♂, 11 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 7 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 4 ♀, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; 6 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova.

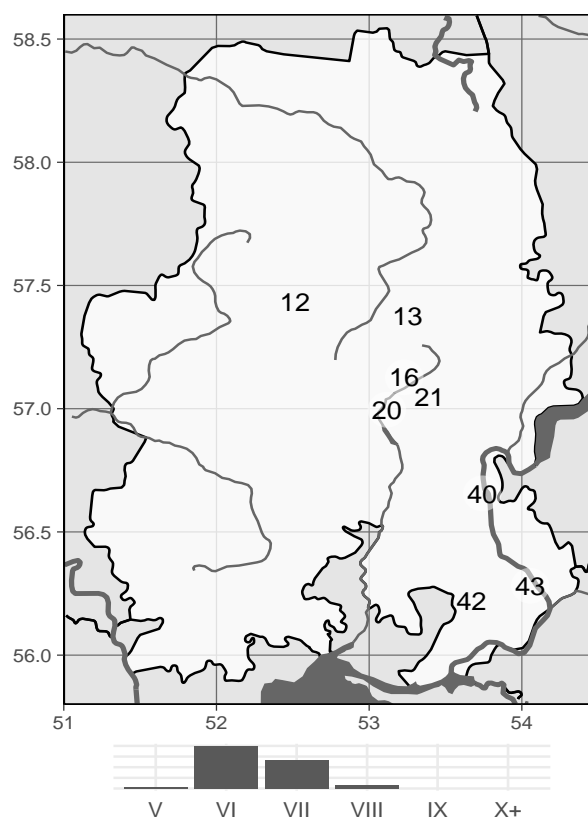


Fig. 179. Distribution map and phenology of *A. aculeata*

Biotope preferences: IV – *Pinus* forests (55 %), III – Upland coniferous forests (53 %), II – Woodlands (26 %), I – All the habitats (19 %), III – Bogs (11 %).

Associated species. Quantitative: *Haplodrassus soerenseni* (0.34), *Agyneta subtilis* (0.29), *Zelotes subterraneus* (0.28), *Xerolycosa nemoralis* (0.28), *Zelotes clivicola* (0.20). **Qualitative:** *Haplodrassus soerenseni* (0.49), *Zelotes subterraneus* (0.48), *Zelotes clivicola* (0.47), *Zora nemoralis* (0.47), *Hahnia ononidum* (0.45).

Stratum: ground.

Range: Holarctic (Circum-Holarctic) Temperate.

Alopecosa cuneata (Clerck, 1757)

Material (Fig. 180): Alnashy Distr.: Golushurma (47): 2 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 6 ♂, 1 ♀, *Abies-Picea* forest, 21.V.2011, leg. E.S. Shirobokova; 10 ♂, bottomland meadow, 21.V.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 21.V.2011, leg. E.S. Shirobokova; 16 ♂, 4 ♀, upland meadow, 21.V.2011, leg. E.S. Shirobokova; 7 ♂, *Abies-Picea* forest, 29.V.2011, leg. E.S. Shirobokova; 15 ♂, *Alnus* groves, 29.V.2011, leg. E.S. Shirobokova; 14 ♂, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 17 ♂, edge of mixed forest, 29.V.2011, leg. E.S. Shirobokova; 4 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 63 ♂, 5 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 4.VI.2011, leg. E.S.

Shirobokova; 5 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; 6 ♂, 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 4 ♂, 3 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 3 ♀, bottomland meadow, 25.VI.2011, leg. E.S. Shirobokova; 7 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 10 ♀, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 4 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 3 ♀, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 2 ♂, 4 ♀, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 14.VII.2012, leg. E.S. Shirobokova; 2 ♀, upland meadow, 14.VII.2012, leg. E.S. Shirobokova; 6 ♀, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, *Abies-Picea* forest, 26.VII.2009, leg. A.N. Sozontov; 1 ♀, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Kiyasovo Distr.: Baisary (48): 1 ♀, faunistic record, 29.VI.2015, L.P. Pyatak; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Sokolovka (43): 376 ♂, 51 ♀, bottomland meadow,

18.VI.2016, leg. K.S. Tatarkin; 86 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 352 ♂, 82 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 5 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 5 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 5 ♂, 5 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 9 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, 4 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, 2 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 5 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 4 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 5 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 15 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 5 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 5 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Siva's delta (34): 2 ♀, bottomland meadow,

23.VIII.2011, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, 1 ♀, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov.

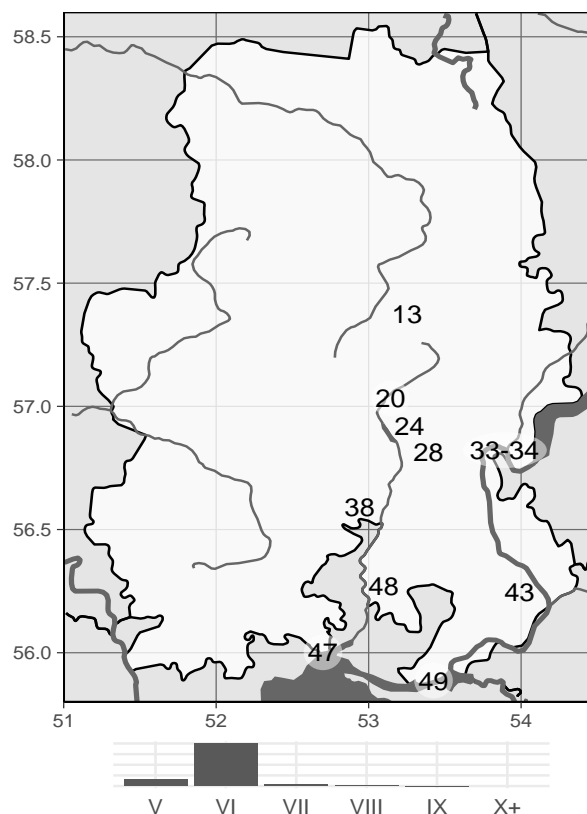


Fig. 180. Distribution map and phenology of *A. cuneata*

Biotope preferences: II – Meadowlands (35 %), I – All the habitats (32 %), IV – Upland meadows (22 %), III – Dry meadows (22 %), II – Ecotones (17 %).

Associated species. Quantitative: *Pardosa palustris* (0.41), *Pardosa fulvipes* (0.33), *Xerolycosa miniata* (0.28), *Trochosa ruricola* (0.27), *Alopecosa pulverulenta* (0.22). **Qualitative:** *Drassyllus pusillus* (0.54), *Alopecosa pulverulenta* (0.50), *Trochosa ruricola* (0.49), *Pardosa palustris* (0.48), *Haplodrassus pseudosignifer* (0.47).

Stratum: ground.

Range: Palearctic (Amphi-Palearctic) Subboreal.

Alopecosa fabrilis (Clerck, 1757)

Material (Fig. 181): Alnashy Distr.: Golushurma (**47**): 2 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (**34**): 1 ♀, faunistic record, 30.VI.2017, leg. A.N. Sozontov.

Stratum: ground.

Range: Palearctic (West-Palearctic) Subboreal.

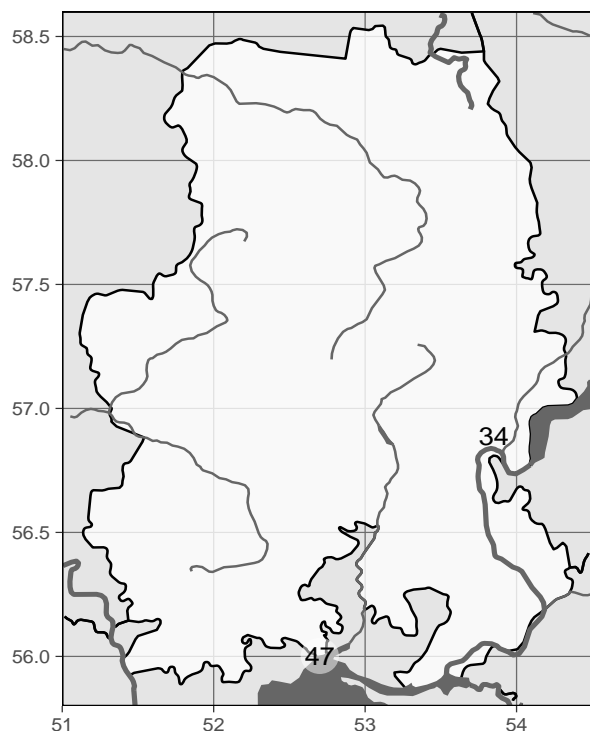


Fig. 181. Distribution map of *A. fabrilis*

Alopecosa farinosa (Herman, 1879)

Material (Fig. 182): Alnashy Distr.: Golushurma (**47**): 3 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 21 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; 5 ♀, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 5.VIII.2014,

leg. A.N. Sozontov; 15 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 6 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (**43**): 26 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 14 ♂, 4 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 3 ♂, 2 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin.

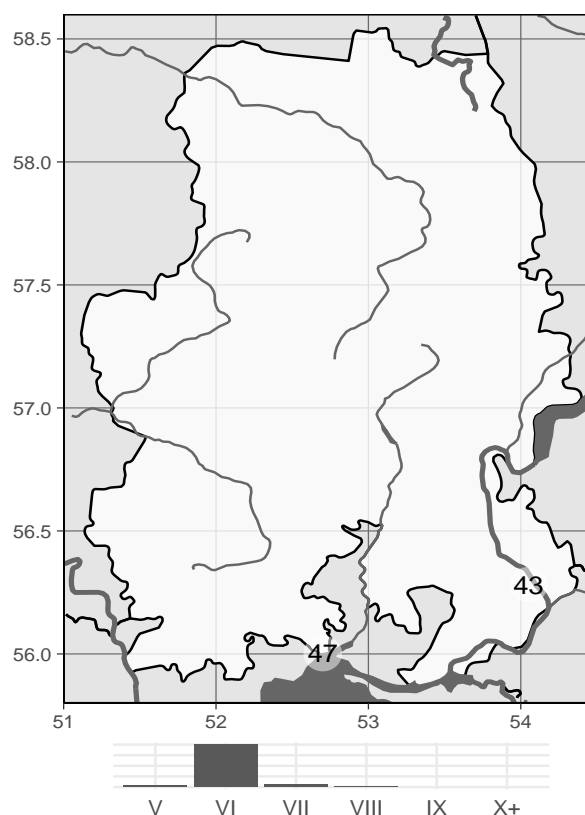


Fig. 182. Distribution map and phenology of *A. farinosa*

Biotope preferences: IV – Edges of coniferous forests (15 %), IV – Steppified slope meadows (14 %), III – Dry meadows (10 %), II – Ecotones (9 %), III – Forest edges (8 %).

Associated species. Quantitative: *Zelotes longipes* (0.39), *Thanatus arenarius* (0.34), *Mustelicosia dimidiata* (0.24), *Haplodrassus pseudosignifer* (0.23), *Alopecosa solitaria* (0.20).

Qualitative: *Zelotes longipes* (0.62), *Thanatus arenarius* (0.56), *Alopecosa solitaria* (0.38), *Mustelicosia dimidiata* (0.38), *Arctosa figurata* (0.36).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal.

***Alopecosa inquilina* (Clerck, 1757)**

Material (Fig. 183): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Noviy (35): 1 ♀, sloping steppe meadow, 20.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

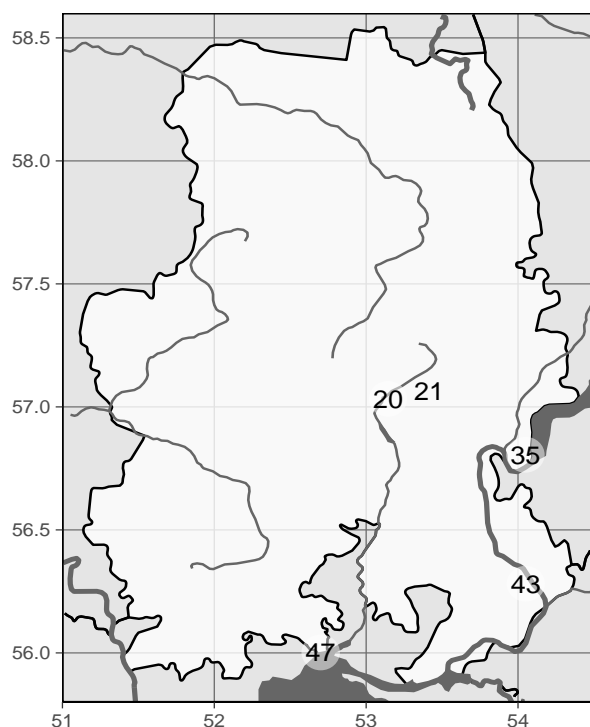


Fig. 183. Distribution map of *A. inquilina*

Associated species. Qualitative: *Agyneta cauta* (0.22), *Lathys humilis*

(0.22), *Steatoda albomaculata* (0.22), *Talavera aperta* (0.22), *Cicurina cicur* (0.20).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

***Alopecosa pulverulenta* (Clerck, 1757)**

Material (Fig. 184): Igra Distr.: Chutyr (13): 1 ♂, *Abies-Picea* forest, 21.V.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, bottomland meadow, 21.V.2011, leg. E.S. Shirobokova; 10 ♂, 1 ♀, edge of mixed forest, 21.V.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 21.V.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 21.V.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 29.V.2011, leg. E.S. Shirobokova; 14 ♂, *Alnus* groves, 29.V.2011, leg. E.S. Shirobokova; 17 ♂, 1 ♀, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 18 ♂, 6 ♀, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 19 ♂, edge of mixed forest, 29.V.2011, leg. E.S. Shirobokova; 9 ♂, 1 ♀, open river bank, 29.V.2011, leg. E.S. Shirobokova; 8 ♂, 1 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 6 ♂, *Abies-Picea* forest, 4.VI.2011, leg. E.S. Shirobokova; 14 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; 7 ♂, 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 4 ♂, 1 ♀, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 8 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 4 ♂, 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova;

- 1 ♀, dark coniferous forest with *Tilia*, 2.VII.2011, leg. E.S. Shirobokova; 4 ♀, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 3 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 2 ♀, *Alnus* groves, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 2 ♀, *Abies-Picea* forest, 24.VII.2011, leg. E.S. Shirobokova; 2 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 7.VIII.2011, leg. E.S. Shirobokova; 2 ♀, bottomland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♀, *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 14.VI.2012, leg. E.S. Shirobokova; 2 ♂, 1 ♀, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 3 ♀, dark coniferous forest with *Tilia*, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 14.VII.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 14.VII.2012, leg. E.S. Shirobokova; Kez Distr.: Cheptsá (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (43): 1 ♂, edge of mixed forest, 6.V.2012, M.N. Zagumenov; 17 ♂, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 14 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 2 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 11 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 4 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Ledukhi (32): 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 8 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 8 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 3 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A.

Shirobokova; 1 ♂, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; 10 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 10 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova.

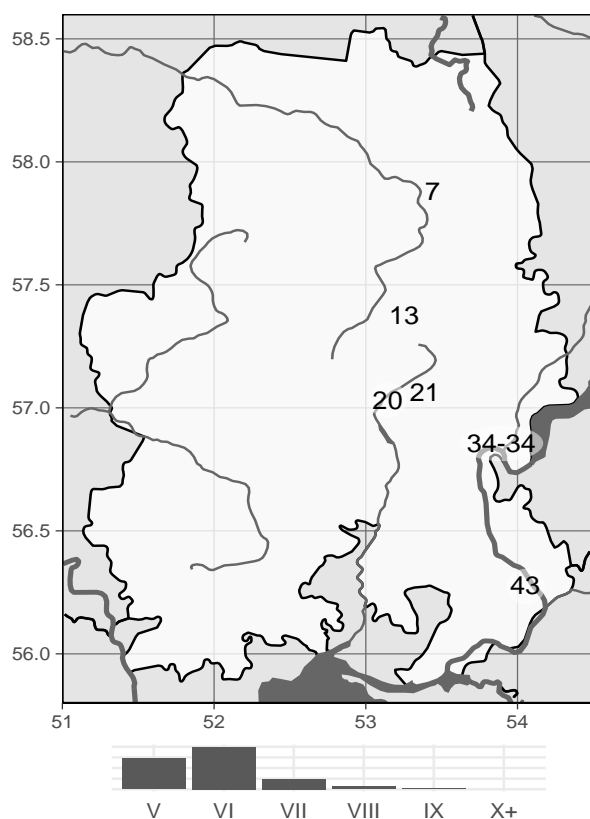


Fig. 184. Distribution map and phenology of *A. pulverulenta*

Biotope preferences: I – All the habitats (35 %), IV – Edges of mixed

forests (20 %), II – Ecotones (18 %), III – Upland mixed forests (17 %), IV – *Alnus* groves (17 %).

Associated species. Quantitative: *Trochosa ruricola* (0.24), *Drassyllus pusillus* (0.22), *Alopecosa cuneata* (0.22), *Xerolycosa miniata* (0.21), *Zelotes azsheganovae* (0.20). **Qualitative:** *Alopecosa cuneata* (0.50), *Trochosa ruricola* (0.45), *Drassyllus pusillus* (0.42), *Pardosa fulvipes* (0.39), *Haplodrassus pseudosignifer* (0.37).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Alopecosa solitaria (Herman, 1879)

Material (Fig. 185): Alnashy Distr.: Golushurma (47): 4 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 12 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 5.VIII.2014, leg. A.N. Sozontov; 35 ♂, sloping steppe meadow, 30.VIII.2014, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, 1 subadult ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 2 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative: *Zelotes longipes* (0.56), *Alopecosa farinosa* (0.20), *Mustelica dimidiata* (0.17), *Thanatus arenarius* (0.13), *Spiracme striatipes* (0.12). **Qualitative:** *Zelotes longipes* (0.52), *Alopecosa farinosa* (0.38), *Mustelica dimidiata* (0.38), *Drassodes pubescens* (0.33), *Haplodrassus signifer* (0.30).

Stratum: ground.

Range: AncientMediterranean (European-CentralAsian) Subarid.

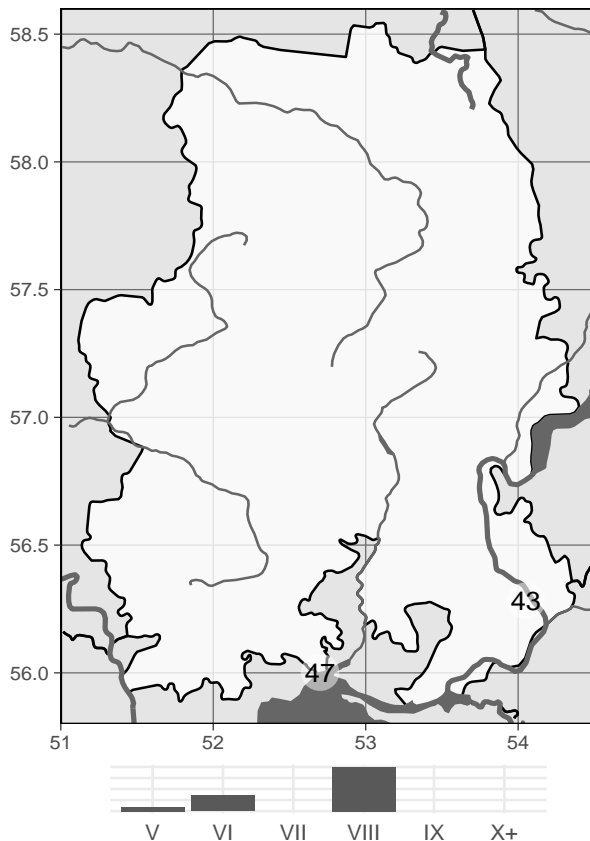


Fig. 185. Distribution map and phenology of *A. solitaria*

***Alopecosa sulzeri* (Pavesi, 1873)**

Material (Fig. 186): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 5.VIII.2014, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: Noviy (35): 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

***Alopecosa taeniata* (C. L. Koch, 1835)**

Material (Fig. 187): Igra Distr.: Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 6 ♂, 1 ♀, dark coniferous forest with *Tilia*,

25.VI.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 3 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Centromerus brevipalpus* (0.12), *Zelotes exiguus* (0.11), *Agroeca brunnea* (0.11), *Diplocephalus latifrons* (0.11), ***Zora nemoralis*** (0.11). **Qualitative:** *Alopecosa aculeata* (0.20), *Maro pansibiricus* (0.18), *Haplodrassus soerenseni* (0.17), *Agroeca brunnea* (0.16), *Lasaeola tristis* (0.15).

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Boreal.

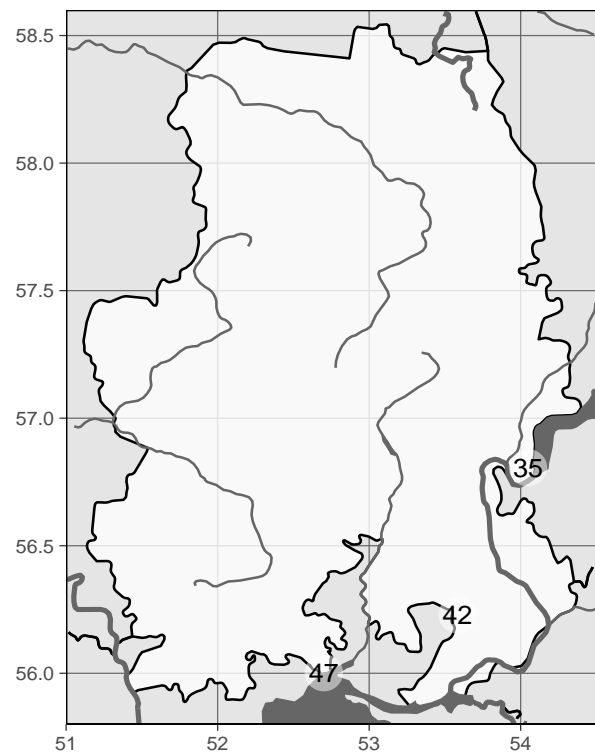


Fig. 186. Distribution map of *A. sulzeri*

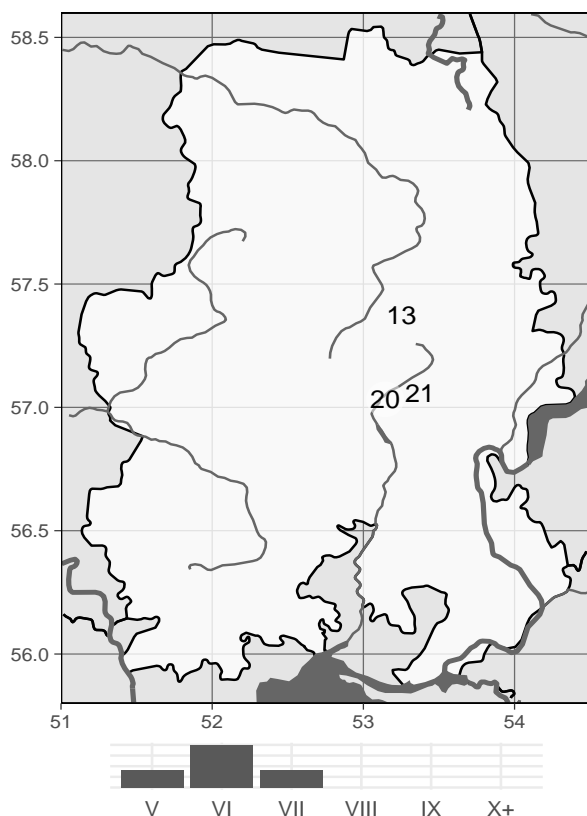


Fig. 187. Distribution map and phenology of *A. taeniata*

***Arctosa cinerea* (Fabricius, 1777)**

Material (Fig. 188): Karakulino

Distr.: Ust'-Belsk (**51**): 1 ♀, open river bank, 8.VII.2011, leg. S.V. Dedyukhin; Zavyalovo Distr.: Doksha (**29**): 1 ♀, open river bank, 10.VI.2007, leg. A.N. Sozontov; 2 ♀, open river bank, 20.VI.2008, leg. A.N. Sozontov.

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Arctosa figurata* (Simon, 1876)**

Material: Sarapul Distr.: Sokolovka (**43**): 2 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 12 ♂, 1 ♀, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 5 ♂, 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin;

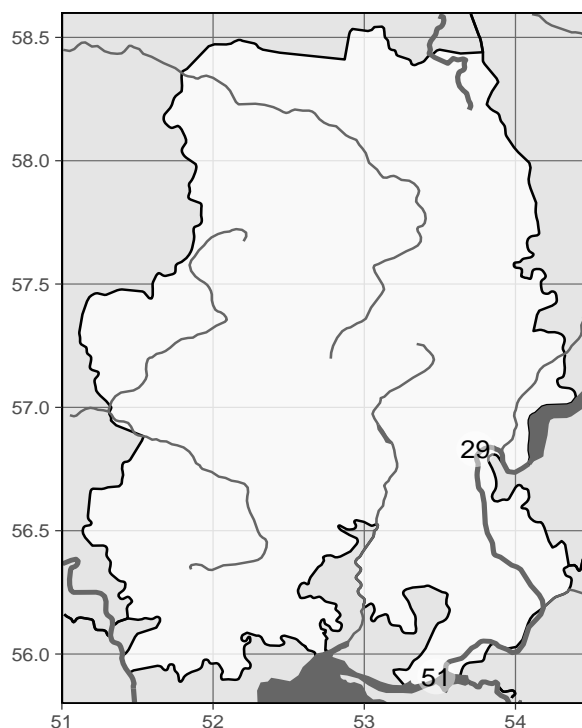


Fig. 188. Distribution map of *A. cinerea*

2 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 8 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative:

Xysticus bifasciatus (0.26), *Micaria silesiaca* (0.24), *Ozyptila claveata* (0.22), *Asagenaphalerata* (0.20), *Stemonyphantes lineatus* (0.18). **Qualitative:** *Micaria silesiaca* (0.67), *Ozyptila claveata* (0.47), *Asagena phalerata* (0.43), *Alopecosa farinosa* (0.36), *Stemonyphantes lineatus* (0.35).

Stratum: ground.

Range: Euro-Siberian (European) Subboreal.

***Arctosa leopardus* (Sundevall, 1833)**

Material (Fig. 189): Igra Distr.: Chutyr (**13**): 1 ♀, *Alnus* groves, 14.VII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (**51**): 2 ♂, 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 2 ♀,

open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 2 ♂, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 5 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative: *Pardosa agricola* (0.31), *Micaria silesiaca* (0.25), *Micaria pulicaria* (0.24), *Pirata piraticus* (0.23), *Clubiona phragmitis* (0.21). **Qualitative:** *Pardosa agricola* (0.53), *Micaria silesiaca* (0.40), *Pardosa maisa* (0.38), *Arctosa figurata* (0.33), *Clubiona phragmitis* (0.31).

Stratum: ground.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

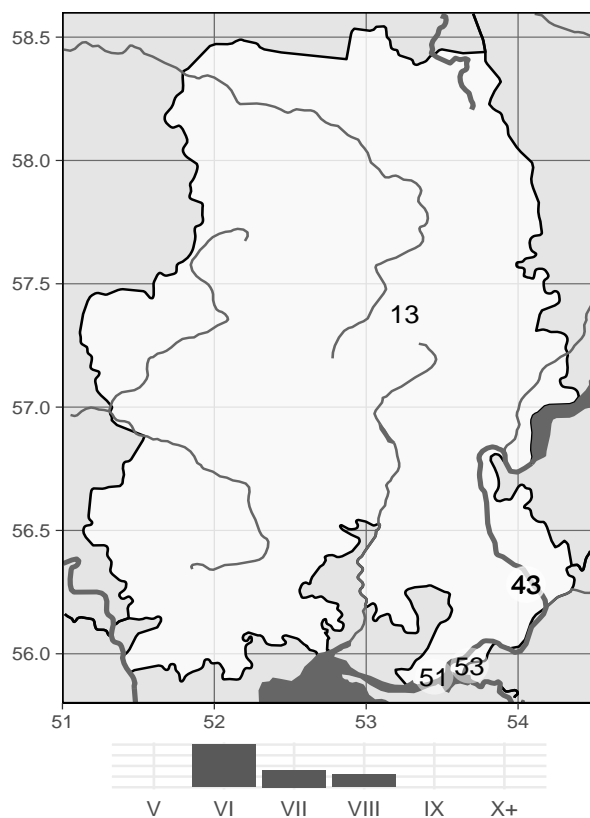


Fig. 189. Distribution map and phenology of *A. leopardus*

Arctosa lutetiana (Simon, 1876)

Material (Fig. 190): Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 subadult ♀, edge of coniferous forest, 24.VIII.2009, leg. A.N. Sozontov.

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

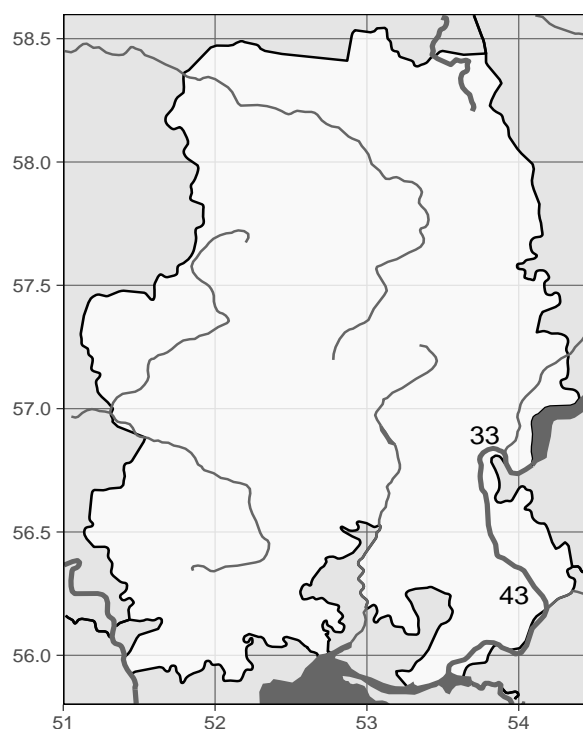


Fig. 190. Distribution map of *A. lutetiana*

Arctosa stigmosa (Thorell, 1875)

Material (Fig. 191): Karakulino Distr.: Ust'-Belsk (51): 1 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 10.VIII.2017,

leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative: *Haplodrassus moderatus* (0.27), *Agroeca lusatica* (0.17), *Pachygnatha clercki* (0.16), *Pardosa plumipes* (0.16), *Ozyptila claveata* (0.15). **Qualitative:** *Pardosa maisa* (0.43), *Ozyptila claveata* (0.27), *Pirata piraticus* (0.27), *Agroeca lusatica* (0.25), *Pachygnatha clercki* (0.25).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

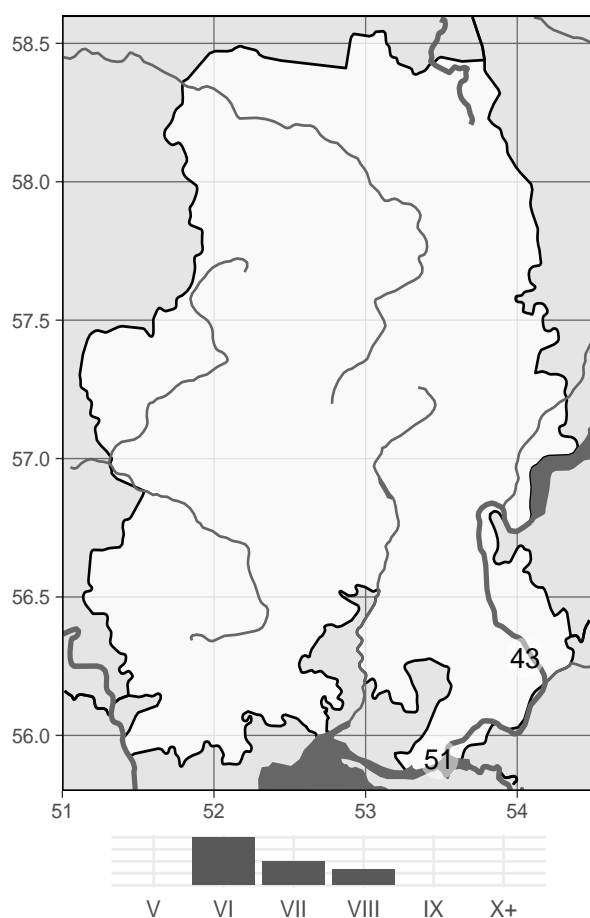


Fig. 191. Distribution map and phenology of *A. stigmata*

***Hygrolycosa rubrofasciata* (Ohlert, 1865)**

Material (Fig. 192): Yakshur-Bodya Distr.: 25-km Yakshur-Bodyinskiy trakt (18): 1 ♂, *Pinus* forest, 15.IX.2009, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova.

Stratum: litter (moss).

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

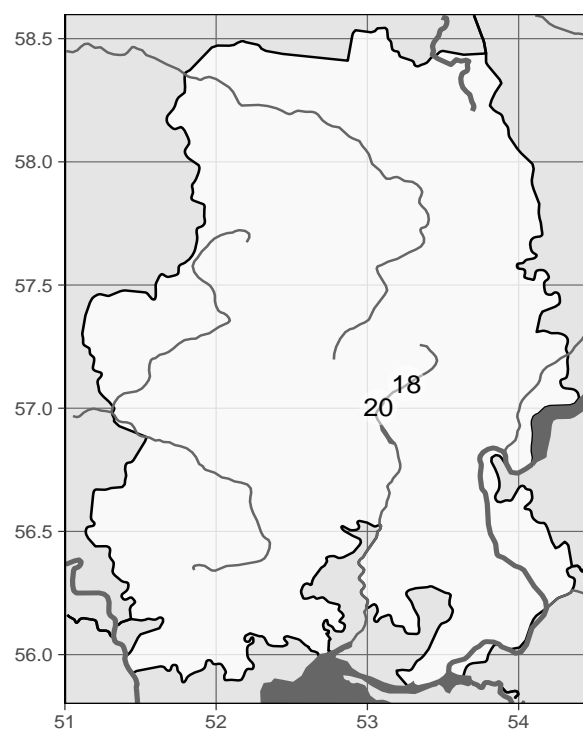


Fig. 192. Distribution map of *H. rubrofasciata*

***Mustelicosia dimidiata* (Thorell, 1875)**

Material (Fig. 193): Alnashy Distr.: Golushurma (47): 3 subadult ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 41 ♂, 8 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 48 ♂, 6 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 25 ♂, 1 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 30.VIII.2014, leg. A.N. Sozontov; 1 ♂, 2 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov

Associated species. Quantitative: *Thanatus arenarius* (0.41), *Haplodrassus pseudosignifer* (0.31), *Alopecosa farinosa*

(0.24), *Titanoeca spominima* (0.20), *Alopecosa solitaria* (0.17). **Qualitative:** *Titanoeca spominima* (0.53), *Alopecosa farinosa* (0.38), *Alopecosa solitaria* (0.38), *Thanatus arenarius* (0.37), *Attulus dzieduszyckii* (0.36).

Stratum: ground, under stone.

Range: AncientMediterranean (EastEuropean-CentralAsian) Subarid.

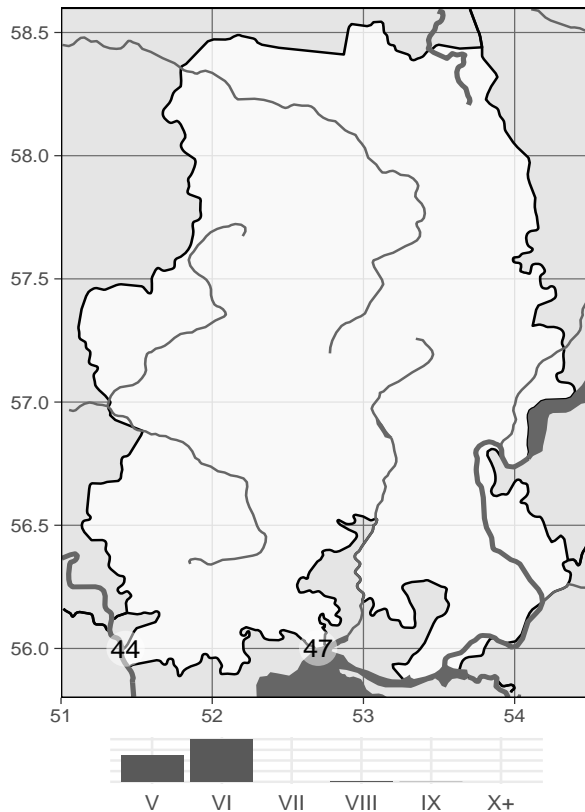


Fig. 193. Distribution map and phenology of *M. dimidiata*

Pardosa agrestis (Westring, 1861)

Material (Fig. 194): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 2 ♂, open river bank, 16.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 3 ♂, 2 ♀, agrocoenosis, 5.VI.2017,

leg. A.N. Izhboldina; 1 ♂, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 3 ♂, 7 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (43): 24 ♂, 21 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 3 ♂, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 5 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 2 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 15 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♂, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 3 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Noviy (35): 2 ♂, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♂, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov; Pozym Kabanikha (28): 2 ♂, 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; Doksha (29): 1 ♂, open river bank, 20.VI.2008, leg. A.N. Sozontov.

Biotope preferences: III – Agrophytocenoses (40 %), IV – Agrophytocenoses (28 %), II – Anthropogenic habitats (24 %), IV – Floodplain hygrophytic meadows (18 %), III – Floodplain meadows (13 %).

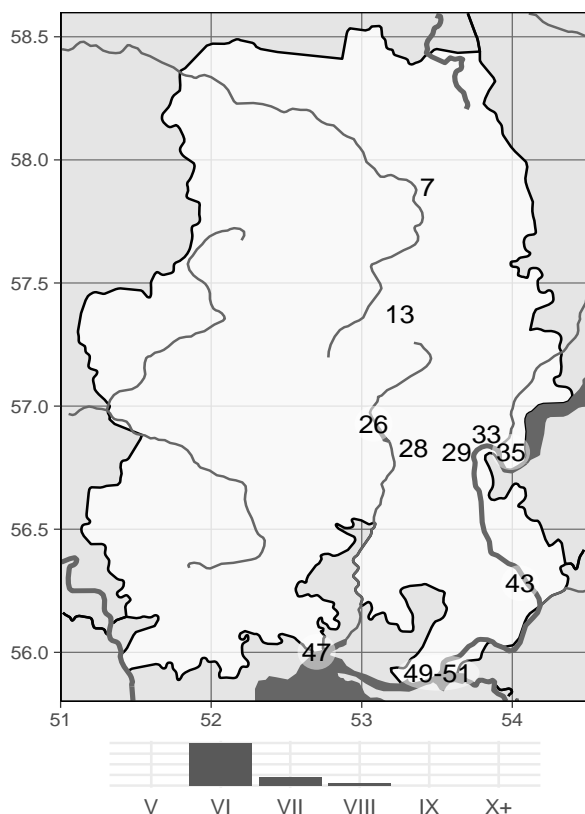


Fig. 194. Distribution map and phenology of *P. agrestis*

Associated species. Quantitative: *Pardosa paludicola* (0.38), *Pardosa agricola* (0.36), *Xerolycosa miniata* (0.33), *Pardosa amentata* (0.30), *Pardosa maisa* (0.21). **Qualitative:** *Pardosa plumipes* (0.37), *Pardosa agricola* (0.37), *Pardosa palustris* (0.37), *Xerolycosa miniata* (0.34), *Pardosa paludicola* (0.32).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Polyzonal.

Pardosa agricola (Thorell, 1856)

Material (Fig. 195): Igra Distr.: Chutyr (13): 1 ♂, open river bank, 14.VI.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 4 ♂, 1 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sarapul Distr.: Sokolovka (43): 8 ♂, 4 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 2 ♂, edge

of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 10 ♂, 1 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 2 ♂, 2 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Noviy (35): 1 ♀, agrocoenosis, 17.VI.2009, leg. A.N. Sozontov.

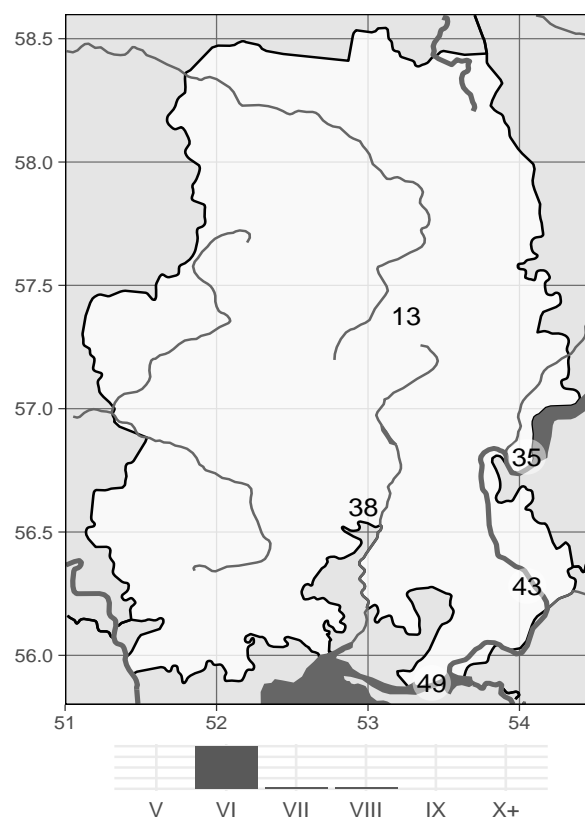


Fig. 195. Distribution map and phenology of *P. agricola*

Biotopic preferences: II – Anthropogenic habitats (16 %), III – Agrophytocenoses (16 %), IV – Floodplain hygrophytic meadows (11 %), IV – Agrophytocenoses (11 %), I – All the habitats (5 %).

Associated species. Quantitative: *Pardosa agrestis* (0.36), *Pardosa paludicola* (0.32), *Arctosa leopardus* (0.31), *Pirata piraticus* (0.26), *Pardosa amentata* (0.24). **Qualitative:** *Arctosa leopardus* (0.53), *Micaria silesiaca*

(0.38), *Pardosa agrestis* (0.37), *Pardosa maisa* (0.35), *Arctosa figurata* (0.32).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Polyzonal.

Pardosa alacris (C. L. Koch, 1833)

Material (Fig. 196): Alnashy Distr.: Golushurma (**47**): 1 ♂, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (**38**): 6 ♂, 16 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♀, *Tilia* forest, 9.VIII.2010, leg. A.N. Sozontov; Noviy (**35**): 2 ♂, 1 ♀, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; 3 ♂, 2 ♀, *Tilia* forest, 12.VI.2010, leg. A.N. Sozontov.

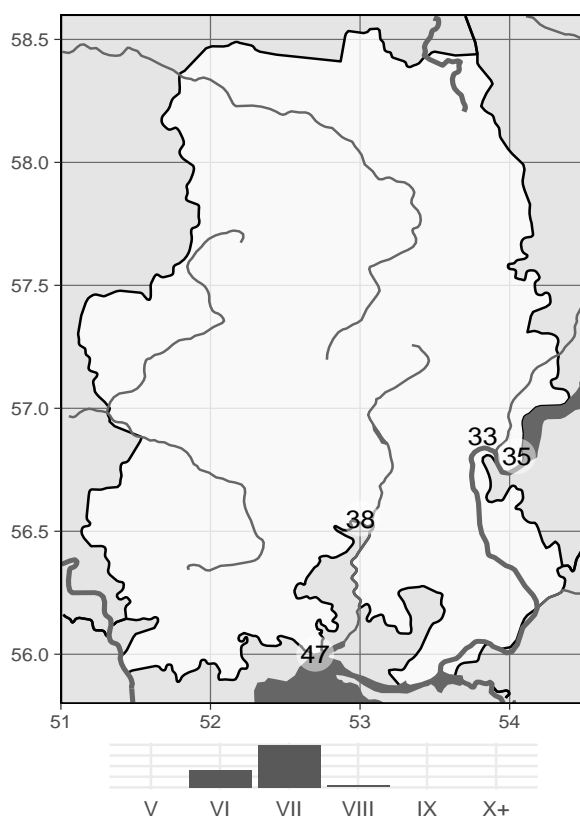


Fig. 196. Distribution map and phenology of *P. alacris*

Associated species. Quantitative: *Steatoda castanea* (0.24), *Pisaura mirabilis* (0.12), *Larinioides ixobolus*

(0.10), *Philodromus poecilus* (0.09), *Walckenaeria mitrata* (0.06).

Qualitative: *Walckenaeria mitrata* (0.25), *Parasteatoda lunata* (0.22), *Troxochrus scabriculus* (0.22), *Larinioides ixobolus* (0.19), *Nerienne peltata* (0.18).

Stratum: ground.

Range: Euro-Siberian (European) Subboreal.

Pardosa amentata (Clerck, 1757)

Material (Fig. 197): Debesy Distr.: Varni (**11**): 1 ♀, faunistic record, 18.V.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (**13**): 1 ♂, open river bank, 21.V.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 29.V.2011, leg. E.S. Shirobokova; 10 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 4 ♂, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 3.IX.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, open river bank, 14.VI.2012, leg. E.S. Shirobokova; Kez Distr.: Cheptsy (**7**): 11 ♂, 17 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (**43**): 15 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 8 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (**22**): 1 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Noviy (**35**): 1 ♂, open lake shore, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci

(15): 1 ♂, Unheated indoor spaces, 9.V.2010, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov.

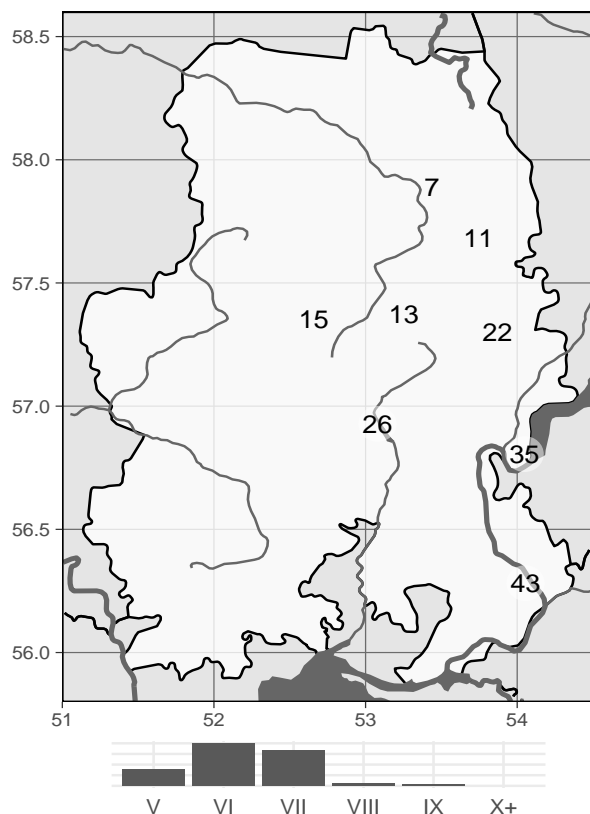


Fig. 197. Distribution map and phenology of *P. amentata*

Biotope preferences: III – Agrophytocenoses (14 %), II – Anthropogenic habitats (13 %), IV – Agrophytocenoses (10 %), IV – *Alnus* groves (9 %), I – All the habitats (9 %).

Associated species. Quantitative: *Pardosa agrestis* (0.30), *Pardosa agricola* (0.24), *Pardosa paludicola* (0.20), *Alopecosa pulverulenta* (0.16), *Leviellus stroemi* (0.16). **Qualitative:** *Clubiona stagnatilis* (0.21), *Pardosa agrestis* (0.21), *Pardosa agricola* (0.20), *Xerolycosa miniata* (0.19), *Pardosa palustris* (0.19).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Polyzonal.

***Pardosa fulvipes* (Collett, 1876)**

Material (Fig. 198): Alnashy Distr.: Staryi Utchan (45): 1 ♀, bog, 8.VII.2009, leg. A.N. Sozontov; 2 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; 2 ♀, open pond shore, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, 1 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; 2 ♂, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 11 ♂, 4 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 14.VI.2011, leg. E.S. Shirobokova; 12 ♂, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 25.VI.2011, leg. E.S. Shirobokova; 36 ♂, 6 ♀, bottomland meadow, 25.VI.2011, leg. E.S. Shirobokova; 24 ♂, 6 ♀, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 9 ♂, 4 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 4 ♂, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 24 ♂, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 2 ♀, bottomland meadow, 2.VII.2011, leg. E.S. Shirobokova; 34 ♂, 5 ♀, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 38 ♂, 2 ♀, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, 2 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 4 ♂, *Abies-Picea* forest, 16.VII.2011, leg. E.S. Shirobokova; 15 ♂, *Alnus* groves, 16.VII.2011, leg. E.S. Shirobokova; 2 ♂, edge of mixed forest, 16.VII.2011, leg. E.S. Shirobokova; 28 ♂,

- 1 ♀, open river bank, 16.VII.2011, leg. E.S. Shirobokova; 4 ♂, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 2 ♂, 4 ♀, bottomland meadow, 24.VII.2011, leg. E.S. Shirobokova; 2 ♂, open river bank, 24.VII.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 2 ♀, *Abies-Picea* forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, 5 ♀, bottomland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 5 ♀, bottomland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 14.VI.2012, leg. E.S. Shirobokova; 18 ♂, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 5 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 4 ♂, 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. E.S. Shirobokova; 6 ♂, *Alnus* groves, 29.VI.2012, leg. E.S. Shirobokova; 45 ♂, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 5 ♂, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 6.VII.2012, leg. E.S. Shirobokova; 11 ♂, 7 ♀, bottomland meadow, 14.VII.2012, leg. E.S. Shirobokova; 2 ♂, 1 ♀, open river bank, 14.VII.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 29.VII.2012, leg. E.S. Shirobokova; 4 ♀, bottomland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 3 ♀, bottomland meadow, 27.VIII.2012, leg. E.S. Shirobokova; Izhevsk (24): 2 ♀, agrocoenosis, 15.VII.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda (49): 2 ♂, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 5 ♂, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 3 ♂, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Cheganda (52): 3 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♂, 3 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsä (7): 4 ♂, 4 ♀, watershed mixed forest, 13.VII.2008, leg. A.V. Ilyina; 5 ♂, 4 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 10 ♂, 5 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 293 ♂, 161 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 36 ♂, 19 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 4 ♀, *Quercus* forest, 18.VI.2016, leg. K.S. Tatarkin; 23 ♂, 7 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 195 ♂, 153 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 47 ♂, 21 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 201 ♂, 166 ♀, 1 subadult ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 33 ♂, 19 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 94 ♂, 41 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 14 ♂, 2 ♀, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 19 ♂, 15 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 30 ♂, 14 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 7 ♂, 19 ♀,

bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 4 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 26 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 4 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; 3 ♂, 84 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; 9 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♂, 12 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (32): 7 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 1 ♂, 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VIII.2009, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 9.VIII.2010, leg. A.N. Sozontov; 2 ♀, floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 3 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 7 ♂, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 5 ♂, 2 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 2 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 7 ♂, 2 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 6 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♂, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashva; 4 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashva; Siva's delta (34): 2 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 21.VI.2009,

leg. A.N. Sozontov; 3 ♀, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; 13 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, open raised bog, 18.VIII.2009, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 25.VII.2012, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 2.VIII.2014, leg. A.N. Sozontov; 11 ♀, floodplain steppified meadow, 9.VII.2015, leg. A.N. Sozontov; 1 ♀, open raised bog, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♂, 6 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov; Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 23 ♂, 7 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 13 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 31.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov.

Biotopic preferences: III – Floodplain meadows (48 %), I – All the habitats (44 %), II – Meadowlands (39 %), IV – Floodplain hygrophytic meadows (35 %), II – Ecotones (12 %).

Associated species. Quantitative: *Pardosa palustris* (0.59), *Trochosa ruricola* (0.37), *Alopecosa cuneata* (0.33), *Xerolycosa miniata* (0.16), *Drassyllus lutetianus* (0.14). **Qualitative:** *Pardosa palustris* (0.56), *Trochosa ruricola* (0.51), *Alopecosa cuneata* (0.44), *Drassyllus lutetianus* (0.40), *Drassyllus pusillus* (0.40).

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Temperate.

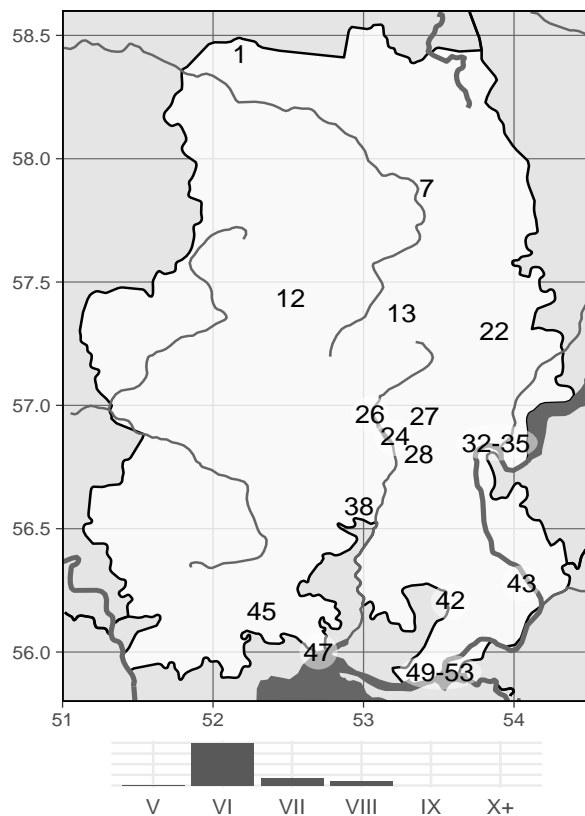


Fig. 198. Distribution map and phenology of *P. fulvipes*

***Pardosa lugubris* (Walckenaer, 1802)**

Material (Fig. 199): Alnashy Distr.: Golushurma (47): 2 ♂, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 8 ♂, 10 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 15 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 3 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; 4 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, 1 ♀, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov; 1 ♂, 1 ♀, riverain deciduous forest, 17.

VI.2015, leg. A.N. Sozontov; Glazov Distr.: Lyum (4): 1 ♀, *Abies-Picea* forest, 13.VIII.2014, leg. A.N. Sozontov; 1 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 9 ♂, 1 ♀, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; 2 ♂, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 3 ♂, 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, *Abies-Picea* forest, 29.V.2011, leg. E.S. Shirobokova; 2 ♂, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 4.VI.2011, leg. E.S. Shirobokova; 3 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 4 ♂, 1 ♀, *Abies-Picea* forest, 14.VI.2011, leg. E.S. Shirobokova; 7 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 13 ♂, dark coniferous forest with *Tilia*, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 4 ♂, 3 ♀, dark coniferous forest with *Tilia*, 2.VII.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 16.VII.2011, leg. E.S. Shirobokova; 4 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 3 ♀, dark coniferous forest with *Tilia*, 20.VIII.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 14.VI.2012, leg. E.S. Shirobokova; 5 ♂, dark coniferous forest with *Tilia*, 14.VI.2012, leg. E.S. Shirobokova; 3 ♂, edge of mixed forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 3 ♂, *Abies-Picea* forest, 29.VI.2012, leg. E.S. Shirobokova; 2 ♂, *Alnus* groves, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 29.VI.2012, leg. E.S. Shirobokova; 2 ♀, *Abies-Picea* forest, 14.VII.2012, leg. E.S.

- Shirobokova; Izhevsk (24): 1 ♂, *Abies-Picea* forest, 26.VII.2009, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 6 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 10 ♂, 2 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; 2 ♀, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 7 ♂, 3 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 2 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 8.VII.2011, leg. S.V. Dedyukhin; 2 ♂, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, open lake shore, 9.VII.2011, leg. A.N. Sozontov; 25 ♂, 4 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 17 ♂, 4 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 12 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 2 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 13 ♂, 2 ♀, riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 6 ♂, 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; 2 ♂, dark coniferous forest with *Tilia*, 14.VIII.2009, leg. A.N. Sozontov; 5 ♂, *Pinus* forest, 14.VIII.2009, leg. A.N. Sozontov; 3 ♂, *Pinus* forest, 15.VIII.2009, leg. A.N. Sozontov; 3 ♂, *Pinus* forest, 17.VIII.2009, leg. A.N. Sozontov; Bima (42): 1 ♂, 1 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 3 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 3 ♂, 3 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 7 ♀, *Tilia* forest, 24.VIII.2009, leg. A.N. Sozontov; 4 ♀, *Tilia* forest, 26.VIII.2009, leg. A.N. Sozontov; 6 ♂, 4 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 3 ♂, 6 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 6 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; 82 ♂, 3 ♀, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 12 ♂, 2 ♀, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 17 ♂, 1 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 3.VII.2016, leg. A.V. Uskova; 2 ♂, 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 2 ♂, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♂, 2 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; 161 ♂, 10 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 4 ♀, *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 19.VI.2009, leg. A.N. Sozontov; 2 ♀, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♂, open river bank, 10.VI.2010, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 2.VII.2010, leg. A.N. Sozontov; 2 ♀,

faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 2 ♀, faunistic record, 1. VII.2013, leg. V.I. Kapitonov; 1 ♀, steppified meadow, 30.VI.2017, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 4 ♂, 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 2 ♂, 2 ♀, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 21. VI.2017, leg. S.A. Shirobokova; 33 ♂, 4 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 6 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 20 ♂, 6 ♀, watershed coniferous forest, 28. VI.2017, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 5 ♂, watershed coniferous forest, 5. VII.2017, leg. S.A. Shirobokova; 6 ♂, 1 ♀, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 4 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 4 ♂, 2 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, 4 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 5 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, 2 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 31.V.2018, leg. S.A. Shirobokova; 9 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 8 ♂, 1 ♀, watershed coniferous forest, 6.VI.2018, leg. S.A. Shirobokova; 21 ♂, 1 ♀, *Pinus* forest, 13. VI.2018, leg. S.A. Shirobokova; 13 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; 20 ♂, 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 12 ♂, 1 ♀, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 11 ♂,

2 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 10 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 5 ♀, watershed coniferous forest, 22. VII.2018, leg. S.A. Shirobokova; 6 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25. VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 7 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 4.VII.2017, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 10. VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 10 ♂, *Pinus* forest, 20. VI.2018, leg. S.A. Shirobokova; 14 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 3 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 9 ♂, 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; Doksha (29): 3 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov.

Biotopic preferences: I – All the habitats (50 %), II – Woodlands (49 %), III – Floodplain deciduous forests (34 %), IV – Floodplain *Quercus* forests (27 %), III – Upland mixed forests (11 %).

Associated species. Quantitative: *Haplodrassus soerenseni* (0.24), *Ozyptila praticola* (0.23), *Zelotes subterraneus* (0.23), *Haplodrassus umbratilis* (0.20), *Xysticus luctator* (0.19). **Qualitative:** *Zelotes subterraneus* (0.46), *Haplodrassus soerenseni* (0.40), *Trochosa terricola* (0.37), *Ozyptila praticola* (0.36), *Trochosa ruricola* (0.32).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Temperate.

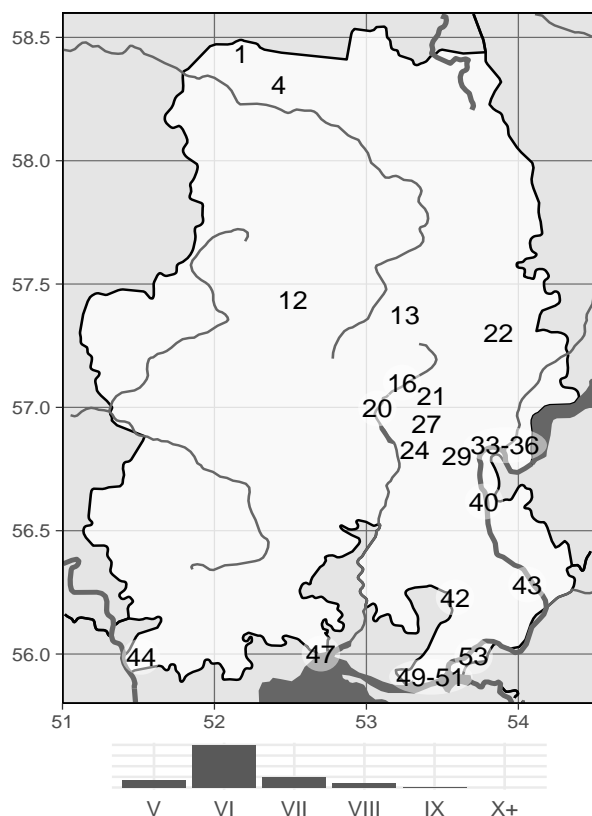


Fig. 199. Distribution map and phenology of *P. lugubris*

***Pardosa maisa* Hippa & Mannila, 1982**

Material (Fig. 200): Sarapul Distr.: Sokolovka (**43**): 2 ♂, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 13 ♂, 5 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 6 ♂, 3 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 4 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 3 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 5 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative: *Pardosa sphagnicola* (0.36), *Pachygnatha degeeri* (0.25), *Drassyllus lutetianus* (0.23), *Pardosa paludicola* (0.23), *Pardosa agrestis* (0.21). **Qualitative:** *Arctosa stigmata* (0.43), *Haplodrassus moderatus* (0.40), *Arctosa leopardus* (0.38), *Pardosa agricola* (0.35), *Antistea elegans* (0.35).

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

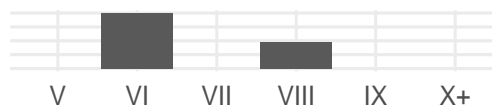


Fig. 200. Phenology of *P. maisa*

***Pardosa paludicola* (Clerck, 1757)**

Material (Fig. 201): Alnashy Distr.: Golushurma (**47**): 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 1 ♀, open river bank, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; Izhevsk (**24**): 1 ♂, *Abies-Picea* forest, 8.V.2013, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (**49**): 2 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izboldina; Shignanda (**50**): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 7 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 1 ♀, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; 2 ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsya (**7**): 2 ♂, 2 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (**44**): 1 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Makarovo (**39**): 1 ♀, open river bank, 10.VI.2009, leg. A.N. Sozontov; Sokolovka (**43**): 2 ♂, 8 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 3 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, upland meadow,

11.VI.2017, leg. K.S. Tatarkin; 6 ♂, 8 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Leducchi (32): 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhoe) (33): 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♀, upland meadow, 8.VI.2017, leg. A.N. Sozontov; Siva's delta (34): 1 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov; Golyany (30): 1 ♀, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

Biotope preferences: III – Agrophytocenoses (14 %), I – All the habitats (12 %), III – Floodplain meadows (10 %), IV – Floodplain hygrophytic meadows (10 %), IV – Edges of broadleaved forests (9 %).

Associated species. Quantitative: *Pardosa agrestis* (0.38), *Pardosa agricola* (0.32), *Drassyllus lutetianus* (0.29), *Drassyllus pusillus* (0.26), *Pardosa sphagnicola* (0.25). **Qualitative:** *Drassyllus lutetianus* (0.36), *Xerolycosa miniata* (0.34), *Drassyllus pusillus* (0.34), *Pardosa agrestis* (0.32), *Drassyllus praeficus* (0.32).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal.

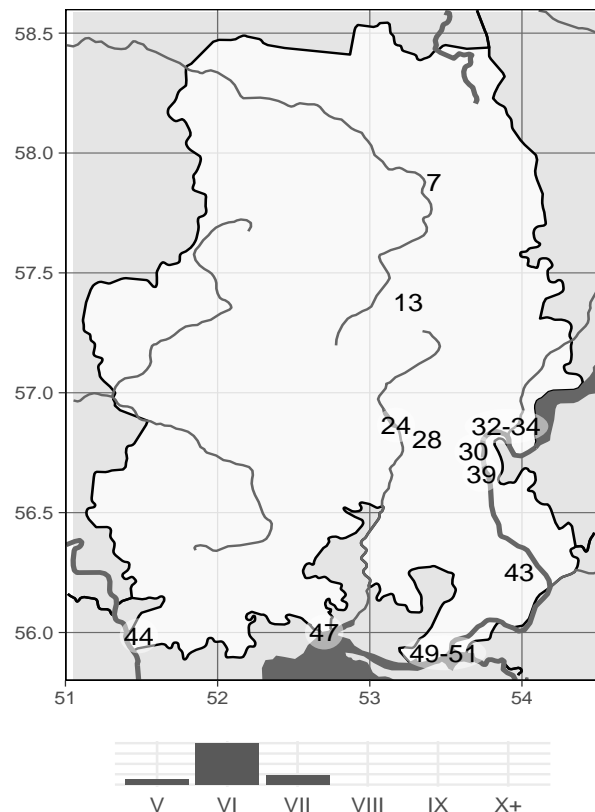


Fig. 201. Distribution map and phenology of *P. paludicola*

Pardosa palustris (Linnaeus, 1758)

Material (Fig. 202): Alnashy Distr.: Staryi Utchan (45): 1 ♀, open pond shore, 8.VII.2009, leg. A.N. Sozontov; Pirogovo (46): 1 ♂, upland meadow, 10.VII.2009, leg. A.N. Sozontov; Golushurma (47): 3 ♂, 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 2 ♂, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 2 ♀, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 12 ♂, 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, bottomland meadow, 25.VI.2011,

- leg. E.S. Shirobokova; 11 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 9 ♂, 2 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 4 ♂, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 11 ♂, 2 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 2 ♂, *Alnus* groves, 16.VII.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 16.VII.2011, leg. E.S. Shirobokova; 5 ♂, 4 ♀, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, open river bank, 24.VII.2011, leg. E.S. Shirobokova; 9 ♂, 1 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 7.VIII.2011, leg. E.S. Shirobokova; 4 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 11 ♂, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 11 ♂, 2 ♀, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 2 ♂, *Alnus* groves, 29.VI.2012, leg. E.S. Shirobokova; 4 ♂, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 19 ♂, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 10 ♂, 1 ♀, open river bank, 14.VII.2012, leg. E.S. Shirobokova; 7 ♂, 2 ♀, upland meadow, 14.VII.2012, leg. E.S. Shirobokova; 2 ♀, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 3 ♀, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 10 ♂, agrocoenosis, 5.VI.2017, leg. A.N. Iziboldina; 2 ♂, agrocoenosis, 27.VI.2017, leg. A.N. Iziboldina; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Iziboldina; Ust'-Belsk (51): 4 ♂, 2 ♀, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; 2 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; 2 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 9.VIII.2009, leg. A.N. Sozontov; Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 813 ♂, 239 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 100 ♂, 71 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 119 ♂, 25 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 142 ♂, 85 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 4 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 162 ♂, 173 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, 3 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 26 ♂, 19 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 4 ♂, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 12 ♂, 7 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 17 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 10 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 31 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 44 ♀, bottomland meadow,

24.VIII.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 14 ♂, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 3 ♂, 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♂, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 6 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 4 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashova; Siva's delta (34): 1 ♀, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; 29 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, open lake shore, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Volozhka (26): 1 ♂, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov; Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 15 ♂, 5 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 7 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotopic preferences: III – Floodplain meadows (41 %), II – Meadowlands (38 %), I – All the habitats (35 %), IV – Floodplain hygrophytic meadows (33 %), II – Ecotones (10 %).

Associated species. Quantitative: *Pardosa fulvipes* (0.59), *Alopecosa cuneata* (0.41), *Trochosa ruricola* (0.33), *Xerolycosa miniata* (0.19), *Drassyllus*

lutetianus (0.13). **Qualitative:** *Pardosa fulvipes* (0.56), *Xerolycosa miniata* (0.51), *Trochosa ruricola* (0.50), *Alopecosa cuneata* (0.48), *Drassyllus lutetianus* (0.45).

Stratum: ground.

Range: Holarctic (Circum-Holarctic) Polyzonal.

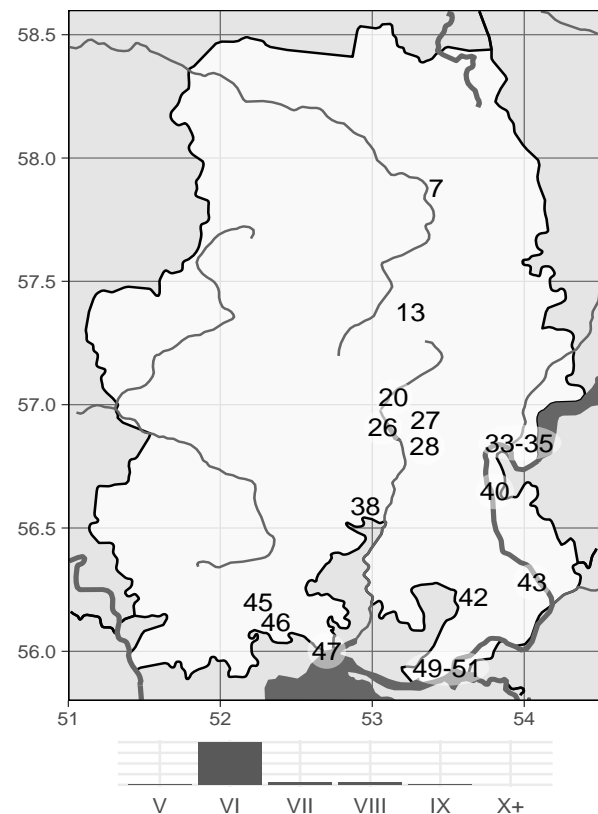


Fig. 202. Distribution map and phenology of *P. palustris*

***Pardosa plumipes* (Thorell, 1875)**

Material (Fig. 203): Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♂, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; 1 ♂, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 6 ♂, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 11 ♂, floodplain steppified meadow,

8.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♂, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, 1 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 5 ♂, 2 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; Siva's delta (34): 1 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 ♂, 2 ♀, open lake shore, 12.VI.2010, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♂, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

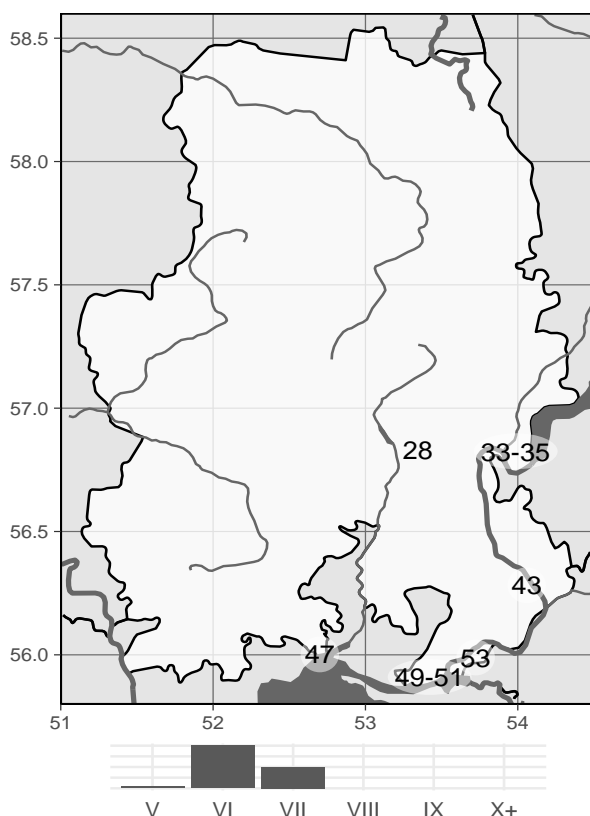


Fig. 203. Distribution map and phenology of *P. plumipes*

Biotope preferences: IV – Floodplain mesophytic meadows (15 %), III – Agrophytocenoses (13 %), III – Floodplain meadows (8 %), II – Anthropogenic habitats (8 %), IV – Agrophytocenoses (8 %).

Associated species. Quantitative: *Pardosa paludicola* (0.24), *Arctosa stigmosa* (0.16), *Pardosa prativaga* (0.15), *Pardosa agrestis* (0.14), *Drassyllus lutetianus* (0.13). **Qualitative:** *Pardosa agrestis* (0.37), *Pardosa paludicola* (0.29), *Zora spinimana* (0.24), *Hypomma bituberculatum* (0.21), *Pardosa prativaga* (0.21).

Stratum: ground.

Range: Euro-Siberian (North European-Siberian) Polyzoal.

Pardosa prativaga (L. Koch, 1870)

Material (Fig. 204): Karakulino Distr.: Byrgynda (49): 2 ♂, agrocenosis, 5.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 9 ♂, 1 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 3 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 5 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♂, 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 4 ♂, 2 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, 1 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 16 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 16 ♂, 3 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 11 ♂, 4 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 4 ♂, 6 ♀, floodplain steppified meadow,

15.VI.2008, leg. A.N. Sozontov; 2 ♂, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 2 ♂, 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♂, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♂, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 8 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 3 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♂, 3 ♀, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 2 ♂, 1 ♀, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 3.VII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 11 ♂, 3 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 4 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 5 ♂, 5 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 4 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 7 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashева; 22 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♂, 5 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 5 ♂, 3 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Volkovskiy (36): 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Doksha (29): 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov.

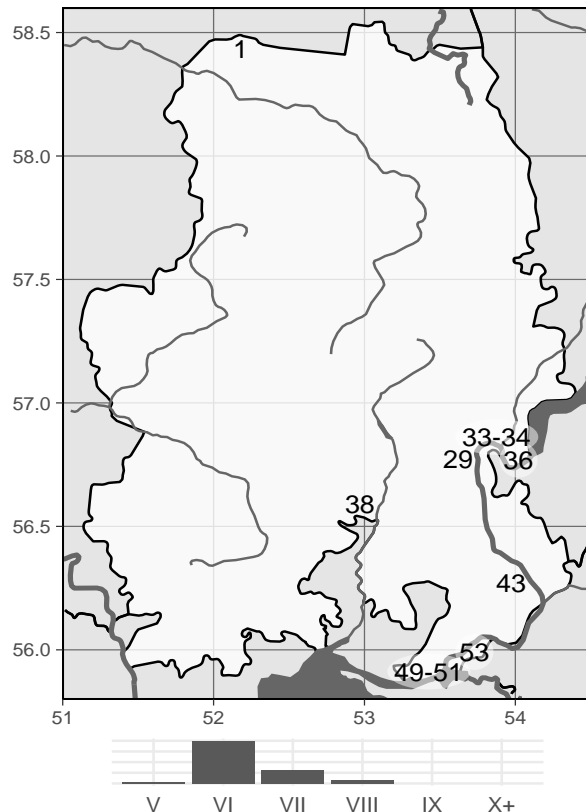


Fig. 204. Distribution map and phenology of *P. prativaga*

Biotope preferences: IV – Floodplain hygrophytic meadows (36 %), III – Floodplain meadows (36 %), I – All the habitats (19 %), IV – Open banks of stagnant waters (17 %), II – Meadowlands (15 %).

Associated species. Quantitative: *Pachygnatha listeri* (0.33), *Drassyllus lutetianus* (0.28), *Pardosa paludicola* (0.25), *Xysticus ulmi* (0.25), *Evarcha arcuata* (0.22). **Qualitative:** *Pachygnatha listeri* (0.36), *Drassyllus lutetianus* (0.33), *Tetragnatha extensa* (0.31), *Pardosa agrestis* (0.31), *Pardosa paludicola* (0.29).

Stratum: ground.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Pardosa pullata (Clerck, 1757)

Material: Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin.

Stratum: ground.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Pardosa schenkeli Lessert, 1904

Material: Votkinsk Distr.: Noviy (35): 3 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Stratum: ground.

Range: Euro-Siberian (Trans-EuroSiberian) Boreal-mountain.

Pardosa sphagnicola (Dahl, 1908)

Material (Fig. 205): Alnashy Distr.: Staryi Utchan (45): 1 ♀, *Pinus* forest, 7.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Glazov Distr.: Lyum (4): 2 ♀, faunistic record, 1.VIII.2014, leg. A.N. Sozontov; 5 ♀, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; 2 ♂, 1 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 21 ♂, 6 ♀, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 12 ♂, 1 ♀, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 4 ♂, 2 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 14 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 19 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 5 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva'

biostation (Perevozhnoe) (33): 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; Siva's delta (34): 1 ♂, watershed mixed forest, 21.VIII.2009, leg. A.N. Sozontov; Noviy (35): 1 ♀, open raised bog, 19.VI.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♂, 4 ♀, open raised bog, 10.VI.2010, leg. A.N. Sozontov; 1 ♂, 2 ♀, bog, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, wooded raised bog, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov.

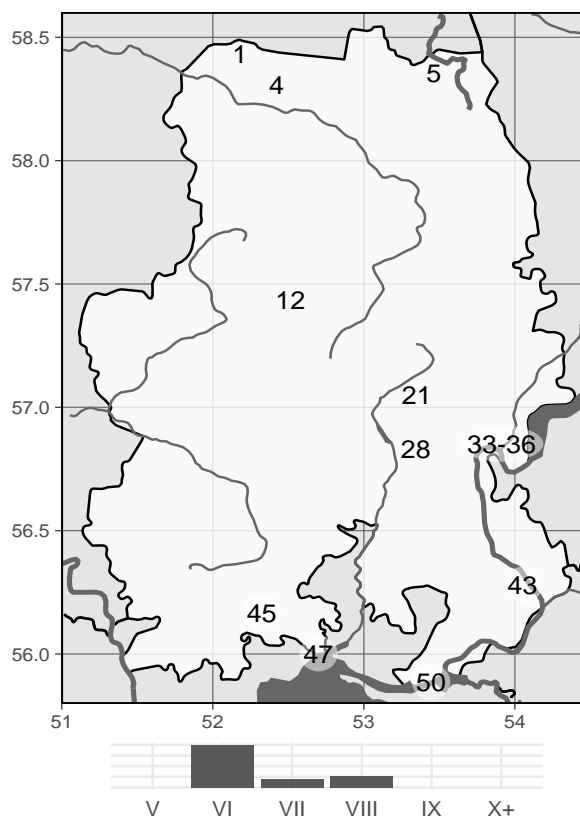


Fig. 205. Distribution map and phenology of *P. sphagnicola*

Biotope preferences: III – Bogs (75 %), IV – Open raised bogs (62 %), II – Wetlands (27 %), I – All the habitats

(11 %), IV – Wooded raised bogs (8 %).

Associated species. Quantitative: *Antistea elegans* (0.38), *Pardosa maisa* (0.36), *Drassyllus lutetianus* (0.28), *Pardosa paludicola* (0.25), *Pachygnatha degeeri* (0.23). **Qualitative:** *Antistea elegans* (0.37), *Pardosa maisa* (0.29), *Piratula hygrophila* (0.27), *Pardosa agrestis* (0.25), *Pirata piraticus* (0.24).

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Boreal.

Pirata piraticus (Clerck, 1757)

Material (Fig. 206): Glazov Distr.: Lyum (4): 1 ♂, 17 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, open river bank, 16.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♂, 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, open river bank, 6.VII.2011, leg. A.N. Sozontov; 1 ♂, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, open lake shore, 9.VII.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 9.VII.2011, leg. S.V. Dedyukhin; Malyashi (53): 1 ♂, 1 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 9 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 3 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 5 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 1 ♀, floodplain *Quercus*

forest, 1.VII.2016, leg. A.V. Uskova; Siva's delta (34): 1 ♂, open lake shore, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 3 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova.

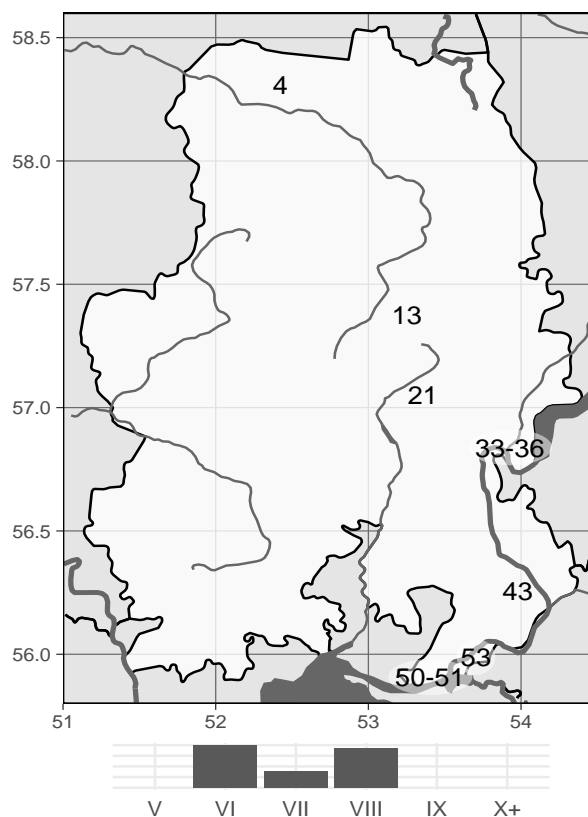


Fig. 206. Distribution map and phenology of *P. piraticus*

Biotopic preferences: II – Wetlands (33 %), III – Bogs (19 %), IV – Open raised bogs (15 %), IV – Open banks of stagnant waters (10 %), I – All the habitats (8 %).

Associated species. Quantitative: *Pardosa agricola* (0.26), *Arctosa leopardus* (0.23), *Pardosa paludicola* (0.22), *Pardosa maisa* (0.21), *Antistea elegans* (0.20). **Qualitative:** *Pardosa*

maisa (0.33), *Pardosa agrestis* (0.27), *Attulus floricola* (0.27), *Arctosa stigmosa* (0.27), *Arctosa leopardus* (0.25).

Stratum: moss, aquatic (water surface).

Range: Holarctic (Circum-Holarctic) Polyzonal.

***Pirata piscatorius* (Clerck, 1757)**

Material (Fig. 207): Alnashy Distr.: Staryi Utchan (**45**): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Glazov Distr.: Lyum (**4**): 2 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (**51**): 1 ♀, riverain deciduous forest, 9.VII.2011, leg. S.V. Dedyukhin; Malyashi (**53**): 1 ♀, riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (**21**): 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (**1**): 2 ♀, wooded raised bog, 15.VII.2015, leg. A.N. Sozontov.

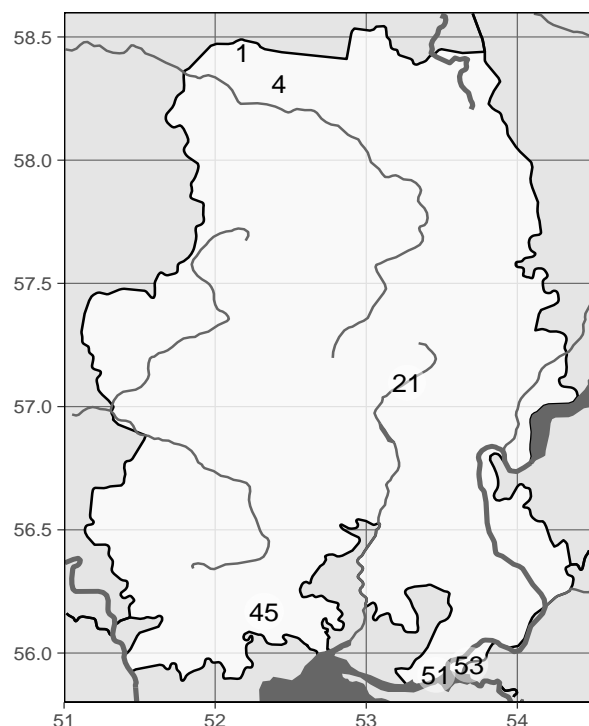


Fig. 207. Distribution map and phenology of *P. piscatorius*

Associated species. Qualitative: *Talavera aperta* (0.22), *Trochosa spinipalpis* (0.21), *Coriarachne depressa*

(0.20), *Glyphesis nemoralis* (0.20), *Agyneta subtilis* (0.19).

Stratum: moss, aquatic (water surface).

Range: Euro-Siberian (European-WestSiberian) Temperate.

***Pirata tenuitarsis* Simon, 1876**

Material (Fig. 208): Karakulino Distr.: Shignanda (**50**): 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (**21**): 2 ♂, 1 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Stratum: moss, aquatic (water surface).

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

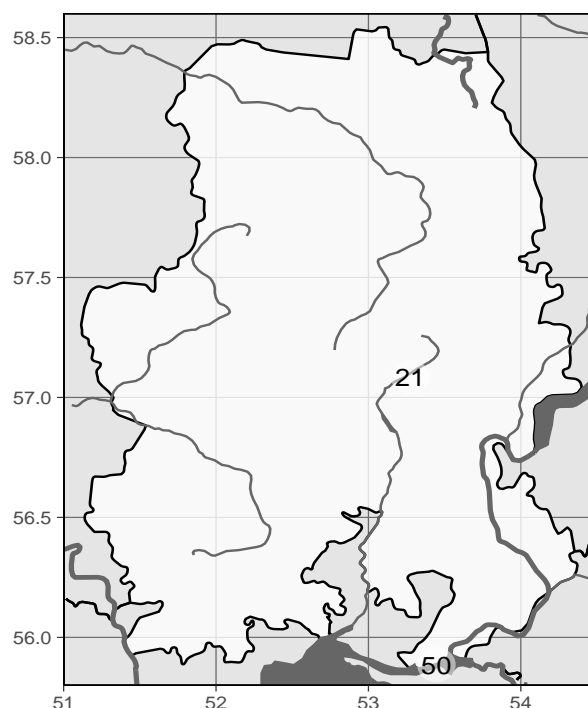


Fig. 208. Distribution map and phenology of *P. tenuitarsis*

***Piratula hygrophila* (Thorell, 1872)**

Material (Fig. 209): Glazov Distr.: Lyum (**4**): 22 ♀, *Abies-Picea* forest, 13.VIII.2014, leg. A.N. Sozontov; 39 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (**12**): 4 ♂, dark coniferous forest with *Tilia*,

13.VI.2015, leg. A.N. Sozontov; 1 ♂, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 2 ♂, 1 ♀, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, open river bank, 20.VIII.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, *Alnus* groves, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 2 ♀, *Alnus* groves, 14.VII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, 2 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, faunistic record, 10.VII.2011, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 13.VI.2012, leg. A.N. Sozontov; 1 ♂, 3 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 1 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 1 ♀, *Quercus* forest, 18.VI.2016, leg. K.S. Tatarkin; 1 ♂, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 12 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 7 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 7 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 18 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 5 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; 25-km Yakshur-Bodyinskiy trakt (18): 1 ♀,

wooded raised bog, 15.IX.2009, leg. A.N. Sozontov; 16-km Yakshur Bodyinskiy trakt (19): 1 subadult ♂, dark coniferous forest with *Tilia*, 6.X.2009, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 5 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 6 ♂, 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 4 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov; 2 ♀, *Abies-Picea* forest, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 8 ♂, 2 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 46 ♂, 13 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Bogs (27 %), II – Wetlands (25 %), I – All the habitats (23 %), IV – Open raised bogs (21 %), III – Upland *Tilia* forests (18 %).

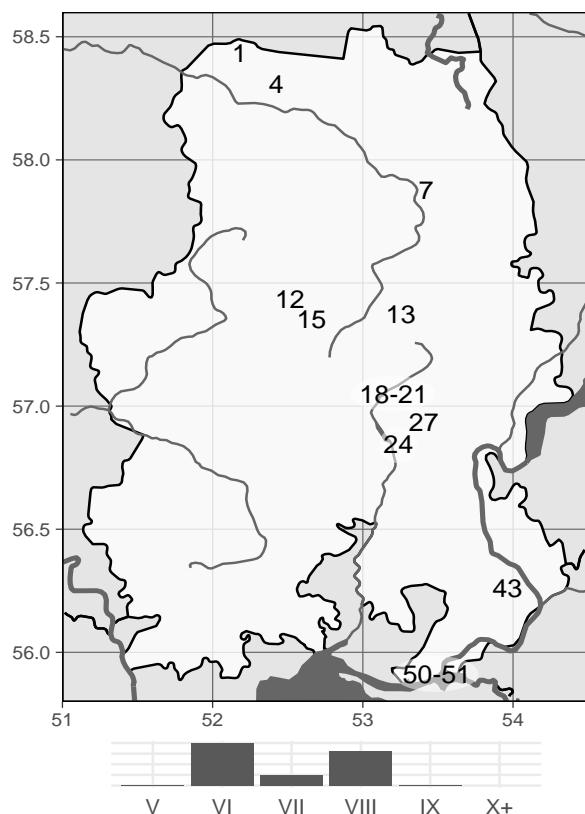


Fig. 209. Distribution map and phenology of *P. hygrophila*

Associated species. Quantitative: *Agyneta olivacea* (0.38), *Bathypantes gracilis* (0.36), *Ozyptila trux* (0.33), *Antistea elegans* (0.28), *Walckenaeria atrotibialis* (0.27). **Qualitative:** *Ozyptila trux* (0.36), *Walckenaeria atrotibialis* (0.31), *Robertus lividus* (0.30), *Euryopis flavomaculata* (0.27), *Zelotes clivicola* (0.27).

Stratum: ground, moss.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Piratula insularis (Emerton, 1885)

Material: Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 2 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Stratum: litter (moss).

Range: Holarctic (Nearctic-West Siberian) Temperate.

Trochosa ruricola (De Geer, 1778)

Material (Fig. 210): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, sloping steppe

meadow, 15.IX.2012, leg. A.N. Sozontov; 3 ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 7 ♂, 1 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; Glazov Distr.: Lyum (4): 1 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, open raised bog, 13.VI.2015, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; 3 ♂, open raised bog, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, edge of mixed forest, 21.V.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 21.V.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 29.V.2011, leg. E.S. Shirobokova; 4 ♂, 1 ♀, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 2 ♂, 3 ♀, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 9 ♂, open river bank, 29.V.2011, leg. E.S. Shirobokova; 5 ♂, 2 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, 2 ♀, *Abies-Picea* forest, 4.VI.2011, leg. E.S. Shirobokova; 9 ♂, 2 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 2 ♂, 2 ♀, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 18 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, 2 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 2.VII.2011, leg. E.S. Shirobokova; 3 ♂,

- 1 ♀, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, 4 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 16.VII.2011, leg. E.S. Shirobokova; 2 ♂, 2 ♀, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 3 ♀, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 3 ♀, *Abies-Picea* forest, 7.VIII.2011, leg. E.S. Shirobokova; 3 ♀, dark coniferous forest with *Tilia*, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 7.VIII.2011, leg. E.S. Shirobokova; 4 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 2 ♀, *Abies-Picea* forest, 20.VIII.2011, leg. E.S. Shirobokova; 3 ♀, *Alnus* groves, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, bottomland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, edge of mixed forest, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, 2 ♀, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, open river bank, 3.IX.2011, leg. E.S. Shirobokova; 2 ♂, 6 ♀, upland meadow, 3.IX.2011, leg. E.S. Shirobokova; 5 ♂, 1 ♀, *Alnus* groves, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 3 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 29.VI.2012, leg. E.S. Shirobokova; 5 ♂, 5 ♀, *Alnus* groves, 29.VI.2012, leg. E.S. Shirobokova; 2 ♂, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 14.VII.2012, leg. E.S. Shirobokova; 2 ♂, *Alnus* groves, 14.VII.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, edge of mixed forest, 14.VII.2012, leg. E.S. Shirobokova; 2 ♂, 1 ♀, open river bank, 14.VII.2012, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 29.VII.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, bottomland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 1 ♀, edge of mixed forest, 12.VIII.2012, leg. E.S. Shirobokova; 3 ♂, 2 ♀, open river bank, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 2 ♀, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 27.VIII.2012, leg. E.S. Shirobokova; 3 ♀, edge of mixed forest, 27.VIII.2012, leg. E.S. Shirobokova; 3 ♂, open river bank, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 3 ♂, *Abies-Picea* forest, 8.IX.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 8.IX.2012, leg. E.S. Shirobokova; 2 ♂, 1 ♀, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; 2 ♂, 1 ♀, Unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 4 ♂, 2 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; 1 ♂, 1 ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; 1 ♀, heated dwellings, 27.VII.2017, leg. A.N. Izhboldina; 1 ♀, Unheated indoor spaces, 27.VII.2017, leg. A.N. Izhboldina; Shignanda (50): 2 ♂, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, floodplain *Quercus* forest, 16.VI.2012,

leg. A.N. Sozontov; 1 ♂, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 3 ♂, 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 2 ♂, 2 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 12 ♂, 8 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 2 ♂, 6 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sarapul Distr.: Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 84 ♂, 47 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 13 ♂, 5 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 6 ♂, 9 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 56 ♂, 24 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 5 ♀, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, 2 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 57 ♂, 23 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 3 ♀, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 14 ♂, 14 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 7 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 5 ♂, 6 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, 4 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♂, 6 ♀, edge of coniferous forest, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♂, 2 ♀, sloping steppe meadow, 10.VIII.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, upland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 12 ♂, 8 ♀, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 4 ♂, 4 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; 20 ♂, 12 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; 1 ♂, 4 ♀,

upland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 2 ♂, 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 4 ♀, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 3 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 1 ♂, 1 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 8 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 7 ♀, edge of deciduous forest, 12.VII.2014, leg. A.V. Uskova; 1 ♂, 4 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; 4 ♂, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 2 ♂, 3 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 4 ♂, 6 ♀, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 2 ♂, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; Siva's delta (34): 8 ♀, edge of deciduous forest, 6.VII.2013, leg. A.V. Uskova; 2 ♂, 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, Unheated indoor spaces, 9.V.2010, leg. A.N. Sozontov; 1 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 24.VIII.2018, S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 2 ♂, 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 2 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (50 %), II – Meadowlands (27 %),

III – Floodplain meadows (23 %), IV – Floodplain hygrophytic meadows (19 %), II – Ecotones (11 %).

Associated species. Quantitative: *Pardosa fulvipes* (0.37), *Pardosa palustris* (0.33), *Drassyllus lutetianus* (0.32), *Pachygnatha degeeri* (0.32), *Xerolycosa miniata* (0.31). **Qualitative:** *Pardosa fulvipes* (0.51), *Pardosa palustris* (0.50), *Alopecosa cuneata* (0.49), *Alopecosa pulverulenta* (0.45), *Drassyllus lutetianus* (0.41).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

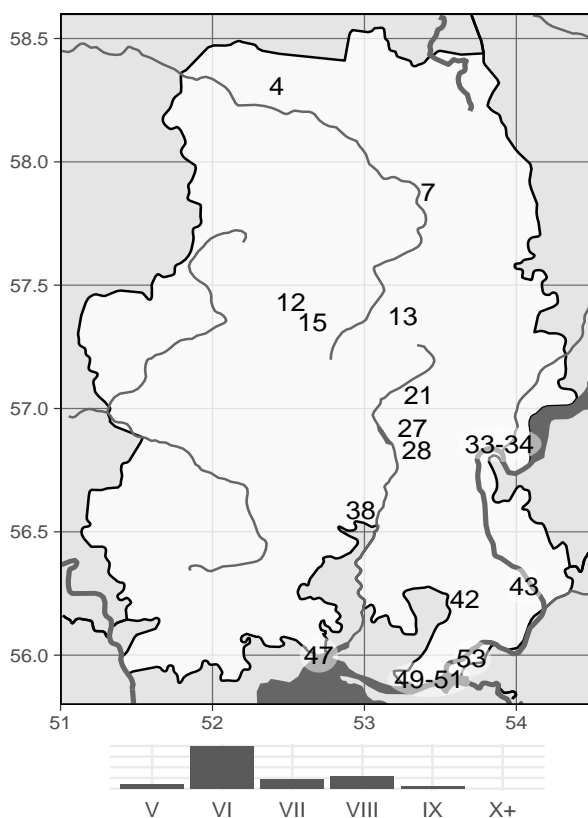


Fig. 210. Distribution map and phenology of *T. ruricola*

***Trochosa spinipalpis* (F. O. Pickard-Cambridge, 1895)**

Material (Fig. 211): Glazov Distr.: Lyum (4): 2 ♀, *Abies-Picea* forest, 13.VIII.2014, leg. A.N. Sozontov; 2 ♀, open raised bog, 13.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13):

1 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 4 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; Siva's delta (34): 2 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Volkovskiy (36): 1 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, wooded raised bog, 15.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 2 ♂, 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov.

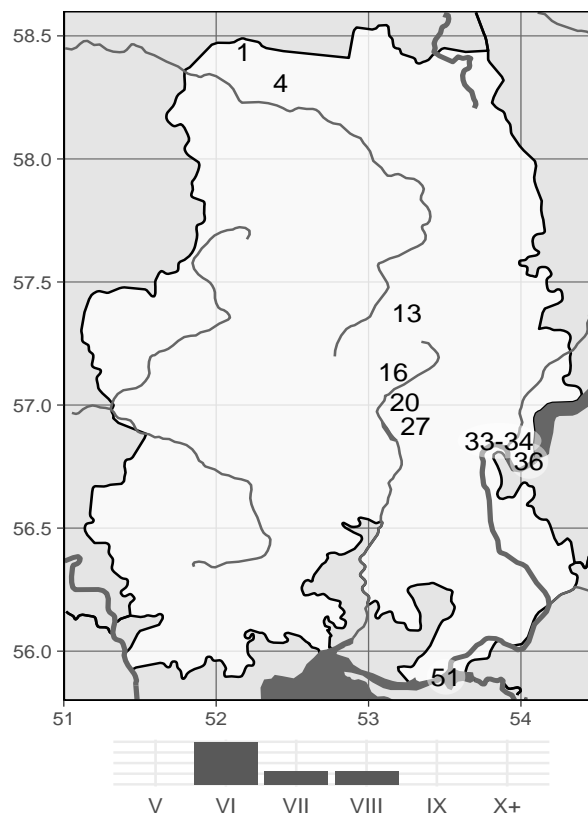


Fig. 211. Distribution map and phenology of *T. spinipalpis*

Biotopic preferences: IV – Wooded raised bogs (23 %), IV – *Alnus* groves (23 %), III – Bogs (14 %), II – Wetlands (9 %), III – Upland *Tilia* forests (7 %).

Associated species. Quantitative: *Pirata piscatorius* (0.20), *Tapinocyba insecta* (0.18), *Robertus lividus* (0.18), *Tenuiphantes nigriventris* (0.18), *Agyneta affinis* (0.15). **Qualitative:** *Agyneta affinis* (0.29), *Tenuiphantes nigriventris* (0.24), *Pirata piscatorius* (0.21), *Haplodrassus silvestris* (0.19), *Pocadicnemis pumila* (0.18).

Stratum: ground, moss.

Range: Palearctic (Amphi-Palearctic) Temperate.

Trochosa terricola Thorell, 1856

Material (Fig. 212): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 11 ♂, 8 ♀, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 4 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, 6 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 3 ♀, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shiobokova; 1 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shiobokova; 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shiobokova; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shiobokova; Karakulino Distr.: Byrgynda (49): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 2 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, *Abies-Picea* forest, 4.VIII.2012, leg. A.N. Sozontov; Kizner

Distr.: Krymskaya Sludka (44): 1 ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 2 ♂, 4 ♀, dark coniferous forest with *Tilia*, 14.VIII.2009, leg. A.N. Sozontov; Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain *Quercus* forest, 1.VII.2016, leg. A.V. Uskova; 3 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; Siva's delta (34): 4 ♂, 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, dark coniferous forest with *Tilia*, 20.VI.2009, leg. A.N. Sozontov; 2 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovski (36): 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 2 ♀, *Tilia* forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 4 ♂, *Pinus* forest, 10.V.2017, leg. S.A. Shiobokova; 1 ♂, 1 ♀, watershed coniferous forest, 10.V.2017, leg. S.A. Shiobokova; 23 ♂, 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shiobokova; 4 ♂, 3 ♀, watershed coniferous forest, 17.V.2017, leg. S.A. Shiobokova; 14 ♂, 6 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shiobokova; 5 ♂, watershed coniferous forest, 24.V.2017, leg. S.A. Shiobokova; 1 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shiobokova; 1 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shiobokova; 2 ♂, watershed coniferous forest, 7.VI.2017, leg. S.A. Shiobokova; 2 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shiobokova; 1 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shiobokova; 5 ♂, 13 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shiobokova; 3 ♂, 10 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A.

Shirobokova; 31 ♂, 5 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 10 ♂, 2 ♀, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 6 ♂, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 3 ♂, watershed coniferous forest, 31.V.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 6.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 5 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 10.VII.2018, leg. S.A. Shirobokova; 1 ♂, 13 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 7 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, 3 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 2 ♂, 2 ♀, watershed coniferous forest, 14.VIII.2018, leg. S.A. Shirobokova; 1 ♂, 7 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 3 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 22 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, 5 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 2 ♂, 6 ♀, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; 4 ♂, 6 ♀, *Pinus* forest, 24.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Doksha (29): 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov.

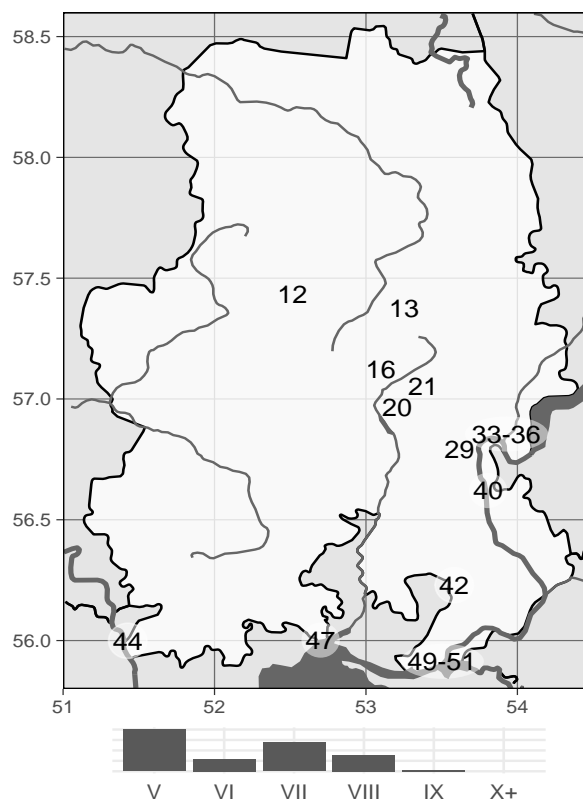


Fig. 212. Distribution map and phenology of *T. terricola*

Biotope preferences: II – Woodlands (50 %), III – Upland coniferous forests (43 %), IV – *Pinus* forests (37 %), I – All the habitats (28 %), IV – *Alnus* groves (8 %).

Associated species. Quantitative: *Zelotes subterraneus* (0.53), *Hahnia pusilla* (0.26), *Zelotes petrensis* (0.26), *Hahnia ononidum* (0.25), *Anguliphantes angulipalpis* (0.25). **Qualitative:** *Zelotes subterraneus* (0.58), *Hahnia ononidum* (0.44), *Zelotes clivicola* (0.44), *Tenuiphantes tenebricola* (0.40), *Agroeca brunnea* (0.39).

Stratum: ground.

Range: Holarctic (Circum-Holarctic) Temperate.

***Xerolycosa miniata* (C. L. Koch, 1834)**

Material (Fig. 213): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 4 ♂, sloping steppe meadow, 29.VI.2014,

leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 5.VIII.2014, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 2 ♂, 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 3 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 2 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 6 ♂, 5 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 4 ♂, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 2 ♂, open river bank, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, open river bank, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (**49**): 9 ♂, 3 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 16 ♂, 8 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; 1 ♀, Unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; 6 ♂, 1 ♀, 1 subadult ♂, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; 1 ♂, 2 ♀, 1 subadult ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; Shignanda (**50**): 4 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 2 ♂, floodplain steppified meadow, 8.VII.2011, leg. A.N. Sozontov; 4 ♂, 4 ♀, sloping steppe meadow, 8.VII.2011, leg. A.N. Sozontov; 3 ♀, open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsya (**7**): 4 ♂, 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (**38**): 3 ♂, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sarapul Distr.: Bima (**42**): 3 ♀, faunistic record, 4.VI.2011, leg. A.N.

Sozontov; Sokolovka (**43**): 52 ♂, 17 ♀, bottomland meadow, 18.VI.2016, leg. K.S. Tatarkin; 10 ♂, 3 ♀, edge of coniferous forest, 18.VI.2016, leg. K.S. Tatarkin; 58 ♂, 12 ♀, upland meadow, 18.VI.2016, leg. K.S. Tatarkin; 3 ♂, 1 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 7 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 13 ♂, 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 8 ♂, 2 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♂, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 11 ♂, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 6 ♂, 1 ♀, edge of deciduous forest, 29.VI.2014, leg. A.V. Uskova; 7 ♂, 2 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 1 ♂, 1 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 4 ♂, 2 ♀, watershed mixed forest, 18.VII.2014, leg. A.V. Uskova; Siva's delta (**34**): 3 ♂, 1 ♀, open river bank, 21.VI.2009, leg. A.N. Sozontov; 3 ♀, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; Noviy (**35**): 1 ♀, open river bank, 10.VI.2010, leg. A.N. Sozontov; 1 ♂, open lake shore, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (**28**): 13 ♂, 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 7 ♂, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotope preferences: III – Agrophytocenoses (33 %), II – Anthropogenic habitats (31 %), I – All the

habitats (23 %), IV – Agrophytocenoses (21 %), II – Meadowlands (11 %).

Associated species. Quantitative: *Pardosa agrestis* (0.33), *Trochosa ruricola* (0.31), *Alopecosa cuneata* (0.28), *Drassyllus pusillus* (0.24), *Alopecosa pulverulenta* (0.21). **Qualitative:** *Pardosa palustris* (0.51), *Haplodrassus pseudosignifer* (0.46), *Alopecosa cuneata* (0.45), *Drassyllus pusillus* (0.45), *Trochosa ruricola* (0.38).

Stratum: ground.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

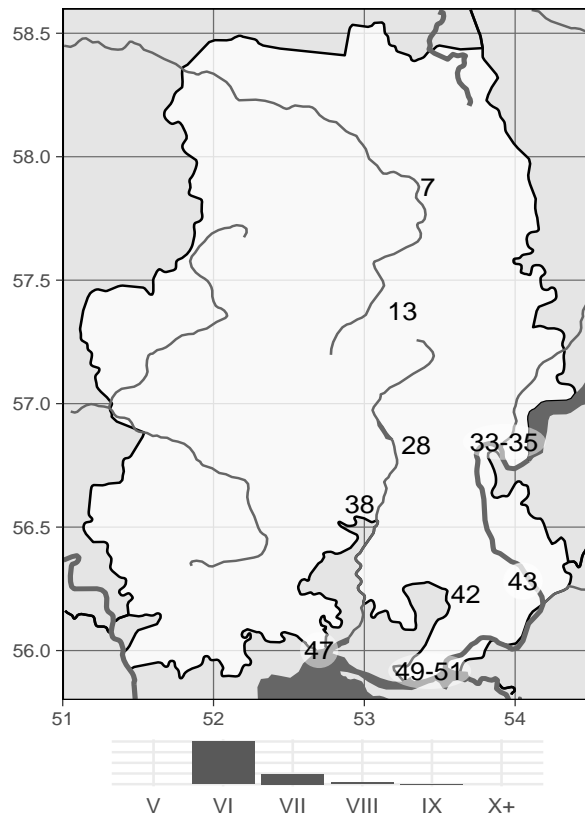


Fig. 213. Distribution map and phenology of *X. miniata*

Xerolycosa nemoralis (Westring, 1861)

Material (Fig. 214): *Igra Distr.*: Novye Zyatci (12): 4 ♂, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, *Alnus* groves, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 3 ♂,

1 ♀, edge of mixed forest, 14.VI.2012, leg. E.S. Shirobokova; 6 ♂, 1 ♀, edge of mixed forest, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 14.VII.2012, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VII.2012, leg. E.S. Shirobokova; *Sharkan Distr.*: Sharkan (22): 1 ♂, 3 ♀, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 28.VI.2012, leg. A.N. Sozontov; *Votkinsk Distr.*: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 2 ♂, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; Noviy (35): 2 ♀, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 3 ♂, 1 ♀, dark coniferous forest with *Tilia*, 20.VI.2009, leg. A.N. Sozontov; 1 ♀, open lake shore, 12.VI.2010, leg. A.N. Sozontov; 2 ♂, 1 ♀, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 2.VII.2010, leg. A.N. Sozontov; 1 ♂, open river bank, 2.VII.2010, leg. A.N. Sozontov; *Volkovskiy* (36): 1 ♂, bog, 12.VI.2010, leg. A.N. Sozontov; *Yakshur-Bodya Distr.*: Selychka (16): 35 ♂, 5 ♀, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov; 6 ♂, 1 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 4 ♂, 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 24.V.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 7 ♂, 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 5 ♂, 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 11.VII.2017, leg. S.A.

Shirobokova; 4 ♂, 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 6 ♂, 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 8 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 26 ♂, 3 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 57 ♂, 7 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 3 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 8 ♂, 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Doksha (29): 1 ♂, faunistic record, 23.VI.2009, leg. A.N. Sozontov; Golyany Zakamye (31): 1 ♀, sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

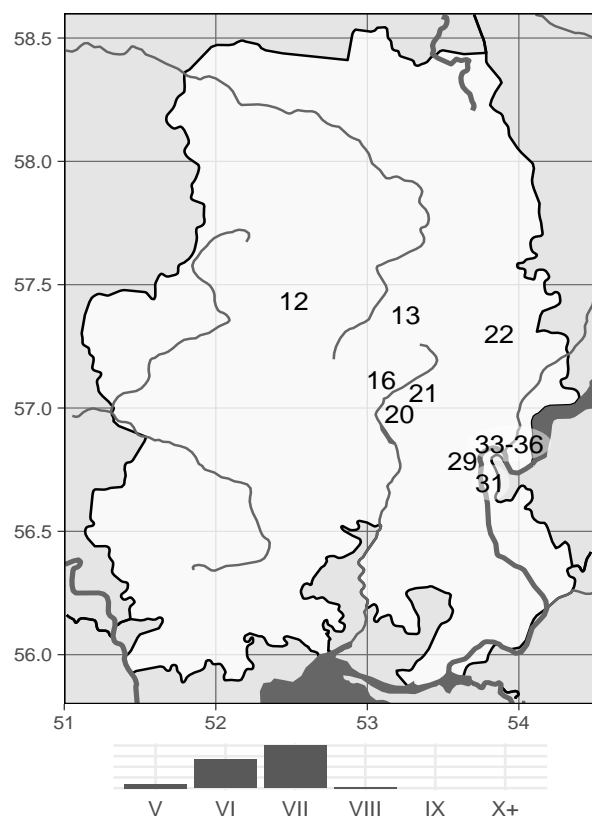


Fig. 214. Distribution map and phenology of *X. nemoralis*

Biotope preferences: III – Upland coniferous forests (34 %), IV – *Pinus* forests (24 %), I – All the habitats (20 %), II – Ecotones (17 %), IV – Edges of mixed forests (16 %).

Associated species. Quantitative: *Agyneta subtilis* (0.44), *Zelotes clivicola* (0.39), *Haplodrassus soerenseni* (0.34), *Alopecosa aculeata* (0.28), *Zelotes subterraneus* (0.25). **Qualitative:** *Zelotes clivicola* (0.48), *Alopecosa aculeata* (0.45), *Haplodrassus soerenseni* (0.44), *Zelotes subterraneus* (0.40), *Zelotes petrensis* (0.39).

Stratum: ground.

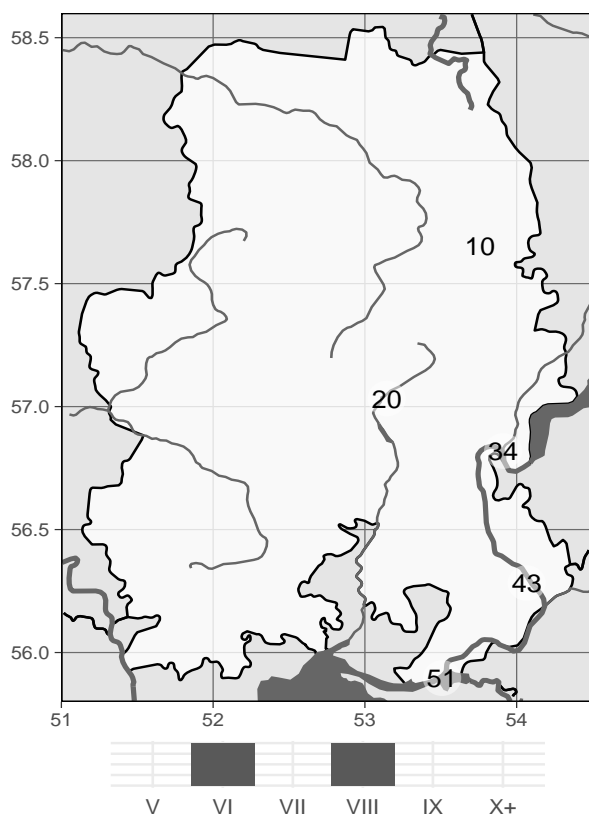
Range: Palaearctic (Trans-Palaearctic) Temperate

3.13. MIMETIDAE

Ero furcata (Villers, 1789)

Material (Fig. 215): Debesy Distr.: Baygurez (10): 1 ♂, 1 ♀, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, sloping steppe meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, 1 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova.

Associated species. Qualitative: *Tapinopa longidens* (0.27), *Zora spinimana* (0.24), *Entelecara acuminata* (0.22), *Pelecopsis mengei* (0.22), *Tenuiphantes nigriventris* (0.22).

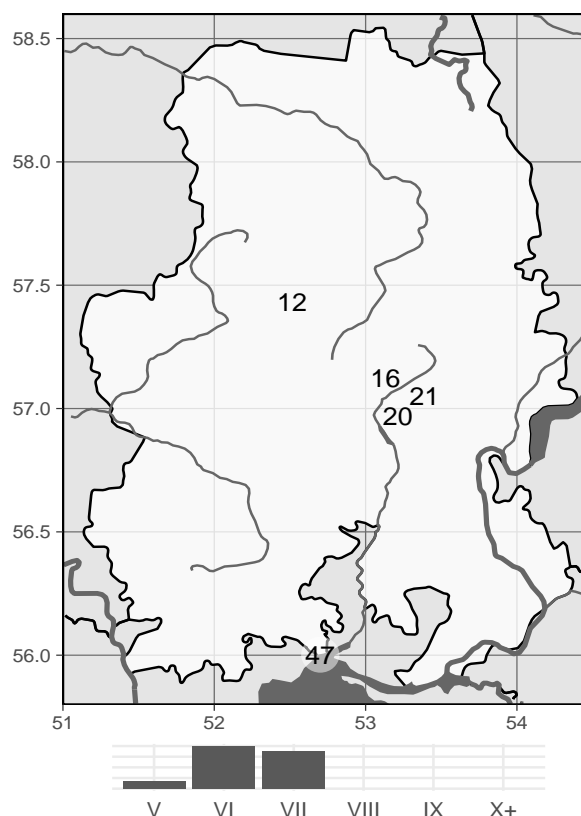
Fig. 215. Distribution map of *E. furcata*

3.14. MITURGIDAE

Zora nemoralis (Blackwall, 1861)

Material (Fig. 216): Alnashy Distr.: Golushurma (47): 4 ♂, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 4 ♂, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; 12 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 2 ♂,

Pinus forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 9 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♂, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova.

Fig. 216. Distribution map and phenology of *Z. nemoralis*

Biotope preferences: IV – *Pinus* forests (30 %), III – Upland coniferous forests (30 %), II – Woodlands (21 %), I

– All the habitats (10 %), IV – Floodplain broadleaved forests (3 %).

Associated species. Quantitative: *Xysticus luctuosus* (0.40), *Zelotes clivicola* (0.37), *Diplocephalus latifrons* (0.35), *Zora spinimana* (0.33), *Robertus lividus* (0.32). **Qualitative:** *Zelotes clivicola* (0.50), *Robertus lividus* (0.47), *Alopecosa aculeata* (0.47), *Agyneta subtilis* (0.43), *Titanoeca quadriguttata* (0.43).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Zora spinimana (Sundevall, 1833)

Material (Fig. 217): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 subadult ♂, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, open raised bog, 13.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♂, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, *Pinus* forest, 14.VIII.2009, leg. A.N. Sozontov; Sokolovka (43): 2 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; Siva's delta (34): 2 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 6 ♂, watershed coniferous forest, 13.VI.2017, leg. S.A. Shirobokova; 12 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest,

21.VII.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova.

Biotope preferences: II – Woodlands (11 %), I – All the habitats (9 %), III – Upland coniferous forests (7 %), IV – *Pinus* forests (6 %), III – Bogs (5 %).

Associated species. Quantitative: *Zora nemoralis* (0.33), *Xysticus luctuosus* (0.21), *Anguliphantes angulipalpis* (0.18), *Agyneta subtilis* (0.15), *Centromerus brevipalpus* (0.15). **Qualitative:** *Anguliphantes angulipalpis* (0.26), *Agyneta affinis* (0.25), *Ero furcata* (0.24), *Zelotes subterraneus* (0.24), *Agyneta subtilis* (0.24).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Temperate

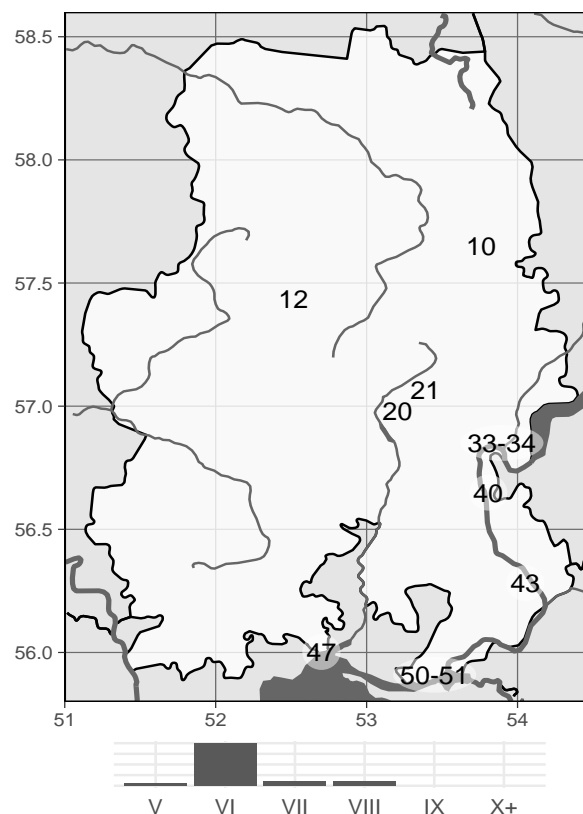


Fig. 217. Distribution map and phenology of *Z. spinimana*

3.15. OXYOPIDAE

Oxyopes ramosus (Martini & Goeze, 1778)

Material (Fig. 218): Balezino Distr.: Sergino (5): 1 ♂, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Kez Distr.: Cheptsa (7): 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Votkinsk Distr.: Noviy (35): 3 juv., open raised bog, 18.VIII.2009, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Volkovskiy (36): 1 juv., open raised bog, 18.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Golyany Zakamye (31): 2 juv., sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

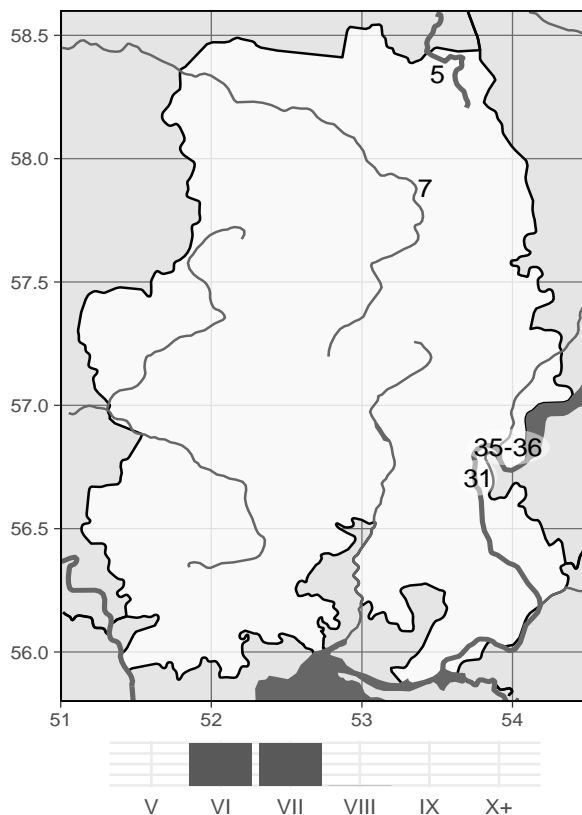


Fig. 218. Distribution map and phenology of *O. ramosus*

Associated species. Quantitative: *Pityohyphantes phrygianus* (0.25), *Alopecosa sulzeri* (0.15), *Phylloneta sisypia* (0.14), *Lasaeola tristis* (0.13), *Marpissa pomatia* (0.13). **Qualitative:** *Pityohyphantes phrygianus* (0.36), *Alopecosa sulzeri* (0.20), *Steatoda albomaculata* (0.20), *Phylloneta sisypia* (0.19), *Nerienne radiata* (0.18).

Stratum: herb, shrub.

Range: Euro-Siberian (European-MiddleSiberian) Temperate

3.16. PHILODROMIDAE

Philodromus aureolus (Clerck, 1757)

Material: Karakulino Distr.: Byrgynda (49): 1 ♂, Unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina.

Stratum: herbs, shrub..

Range: Palaearctic (Trans-Palaearctic) polyzonal.

Philodromus cespitum (Walckenaer, 1802)

Material (Fig. 219): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, 2 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Izhevsk (24): 1 ♂, anthropogenic habitat, 1.VI.2012, leg. A.N. Sozontov; 1 ♂, anthropogenic habitat, 18.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♀, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 6 ♂, 11 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov;

8 ♂, 9 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 8 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 9.VII.2011, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Cheganda (52): 3 ♂, 1 ♀, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; 3 ♂, 3 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 3 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 1 ♂, 5 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; 1 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; Votkinsk Distr.: Leducchi (32): 2 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain *Quercus* forest, 19.VIII.2011, leg. A.N. Sozontov; 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 2 ♂, 1 ♀, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 7 ♂, 6 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, 5 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 3 ♀, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 3 ♀, watershed mixed forest, 16.VII.2014, leg. A.V. Uskova; 1 ♂, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashva; Siva's delta (34): 1 ♂, 1 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, 1 subadult ♀, floodplain *Quercus*

forest, 21.VI.2009, leg. A.N. Sozontov; 1 ♂, 3 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♂, 1 ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♂, 4 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 3 ♂, 3 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, agrocoenosis, 17.VI.2009, leg. A.N. Sozontov; 1 juv., dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 ♂, 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov.

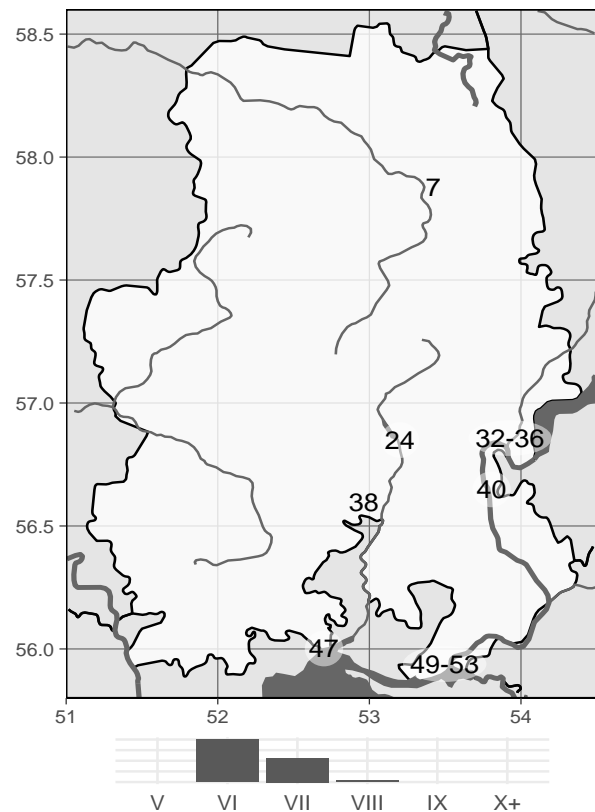


Fig. 219. Distribution map and phenology of *Ph. cespitum*

Biotope preferences: I – All the habitats (19 %), IV – Edges of broadleaved forests (11 %), II – Wetlands (7 %), II – Anthropogenic habitats (6 %), II – Ecotones (6 %).

Associated species. Quantitative: *Tibellus oblongus* (0.34), *Phylloneta impressa* (0.32), *Cheiracanthium erraticum* (0.25), *Larinioides patagiatus* (0.24), *Larinioides suspicax* (0.23). **Qualitative:** *Phylloneta impressa* (0.43), *Cheiracanthium erraticum* (0.38), *Micrommata virescens* (0.38), *Evarcha arcuata* (0.38), *Tibellus oblongus* (0.37).

Stratum: herb, shrub, canopy.

Range: Holarctic (Circum-Holarctic) Polyzonal.

Philodromus emarginatus (Schrank, 1803)

Material (Fig. 220): Alnashy Distr.: Staryi Utchan (45): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, floodplain steppified meadow, 1.VIII.2014, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, floodplain steppified meadow, 9.VI.2009, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova.

Associated species. Qualitative: *Pirata piscatorius* (0.18), *Attulus floricola* (0.11), *Phylloneta sisypchia* (0.11), *Agyneta subtilis* (0.10), *Araniella proxima* (0.10).

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Philodromus fuscmarginatus (De Geer, 1778)

Material: Votkinsk Distr.: Noviy (35): 1 ♂, bog, 18.VI.2008, leg. A.N. Sozontov.

Stratum: tree stems.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

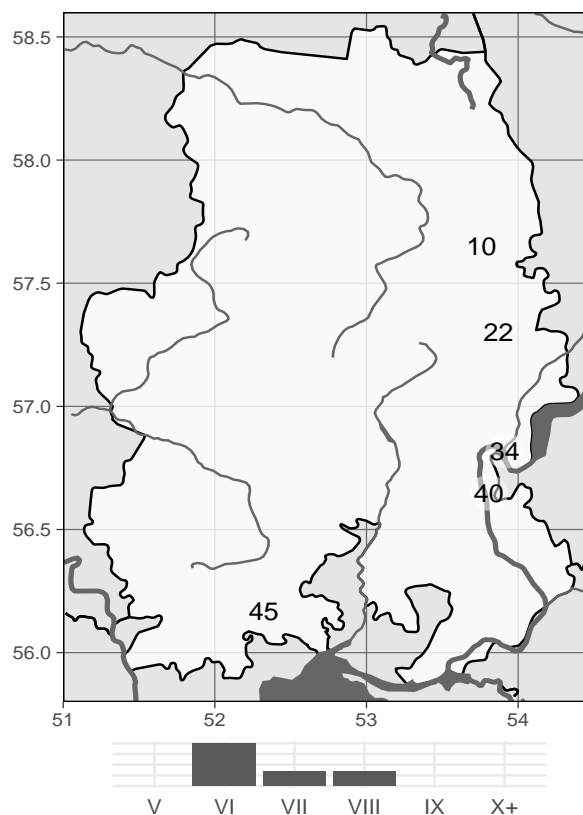


Fig. 220. Distribution map and phenology of *Ph. emarginatus*

Philodromus margaritatus (Clerck, 1757)

Material (Fig. 221): Sarapul Distr.: Bima (42): 2 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♀, faunistic record, 30.VI.2017, leg. A.N. Sozontov.

Stratum: tree stems.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Philodromus poecilus (Thorell, 1872)

Material (Fig. 222): Karakulino Distr.: Byrgynda (49): 1 ♀, Unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 2 ♀, open lake shore, 11.VI.2011,

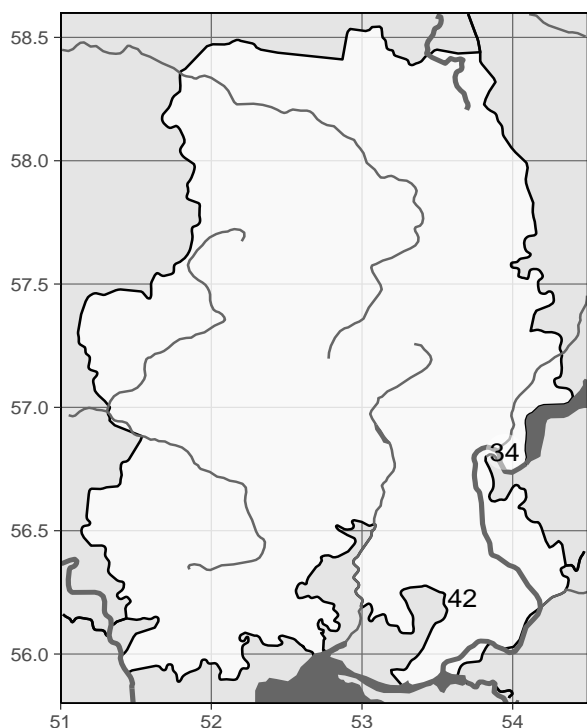


Fig. 221. Distribution map of *Ph. margaritatus*

leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 2 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sarapul Distr.: Sokolovka (43): 1 ♀, faunistic record, 1.VI.2013, M.N. Zagumenov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 10.VI.2007, leg. A.N. Sozontov; 1 ♂, 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Larinioides ixobolus* (0.32), *Tetragnatha montana* (0.29), *Micaria pulicaria* (0.21), *Clubiona phragmitis* (0.17), *Dolomedes fimbriatus* (0.17). **Qualitative:** *Clubiona phragmitis* (0.33), *Larinioides ixobolus* (0.33), *Tetragnatha montana* (0.32), *Parasteatoda tabulata* (0.27), *Steatoda bipunctata* (0.24).

Stratum: tree stems.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

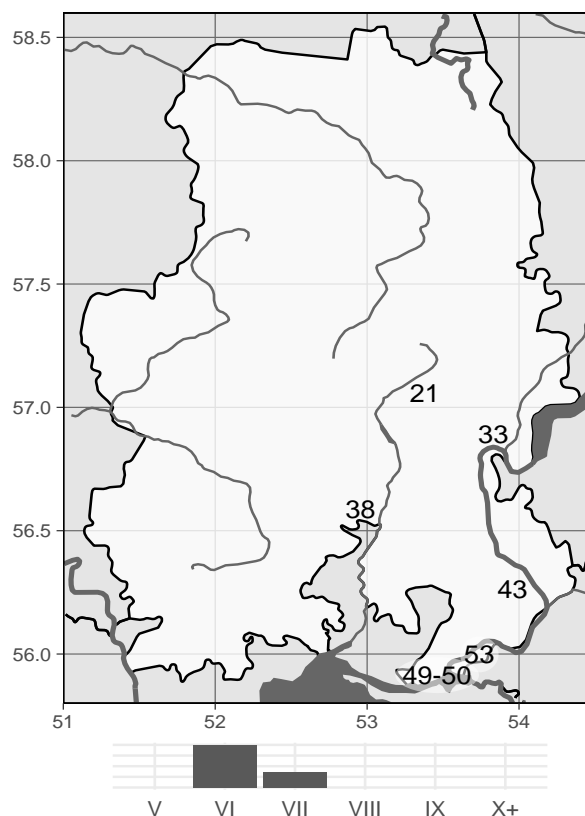


Fig. 222. Distribution map and phenology of *Ph. poecilus*

***Rhysodromus histrio* (Latreille, 1819)**

Material (Fig. 223): Alnashy Distr.: Golushurma (47): 1 subadult ♀, 5 juv., sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 3 ♀, 1 juv., sloping steppe meadow, 24.V.2013, leg. A.N. Sozontov; 3 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 5 juv., sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, faunistic record, 10.VI.2007, leg. A.N. Sozontov.

Associated species. Quantitative: *Linyphia tenuipalpis* (0.24), *Euryopis saukeya* (0.22), *Titanoeca spominima* (0.18), *Microlinyphia pusilla* (0.16),

Spiracme striatipes (0.15). **Qualitative:** *Linyphia tenuipalpis* (0.43), *Euryopis saukea* (0.36), *Spiracme striatipes* (0.36), *Thanatus striatus* (0.27), *Microlinyphia pusilla* (0.26).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Subboreal-subarid.

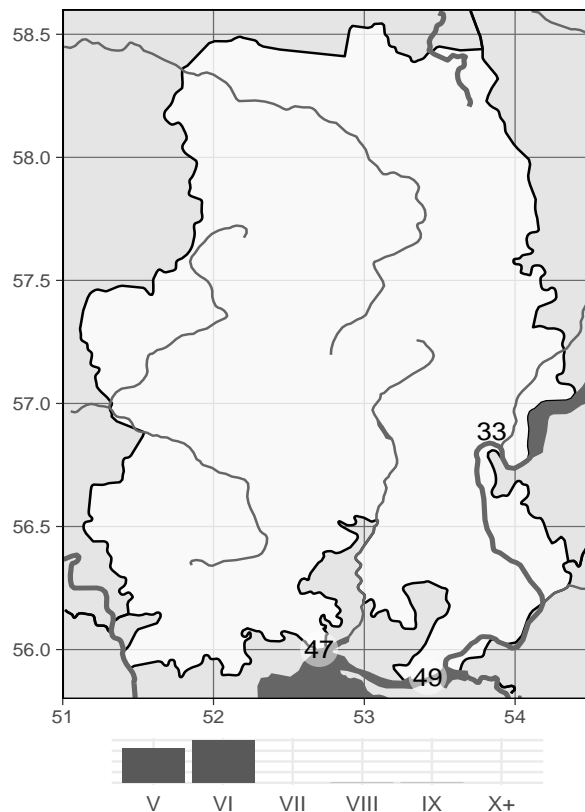


Fig. 223. Distribution map and phenology of *Rh. histrio*

***Thanatus arenarius* L. Koch, 1872**

Material (Fig. 224): Alnashy Distr.: Golushurma (47): 37 ♂, 3 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 60 ♂, 2 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 24.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow,

30.VIII.2014, leg. A.N. Sozontov; 49 ♂, 1 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 4 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 6 ♂, 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 3 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; Kiyasovo Distr.: Baisary (48): 1 ♀, faunistic record, 29.VI.2015, L.P. Pyatak; Sarapul Distr.: Dulesovo (41): 1 ♀, faunistic record, 30.VIII.2011, leg. S.V. Dedyukhin; Sokolovka (43): 7 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 10 ♂, 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 6 ♂, 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 11 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 26.VI.2017, leg. K.S. Tatarkin.

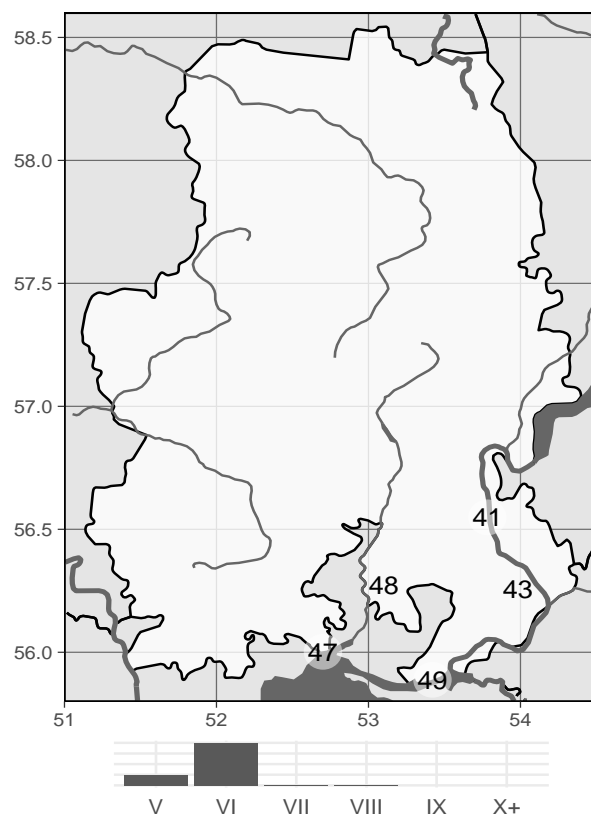


Fig. 224. Distribution map and phenology of *Th. arenarius*

Biotope preferences: IV – Steppified slope meadows (39 %), III – Dry meadows (27 %), II – Meadowlands (15 %), I – All the habitats (8 %), IV – Edges of coniferous forests (3 %).

Associated species. Quantitative: *Haplodrassus pseudosignifer* (0.47), *Mustelcosa dimidiata* (0.41), *Alopecosa farinosa* (0.34), *Zelotes longipes* (0.27), *Ozyptila claveata* (0.16). **Qualitative:** *Alopecosa farinosa* (0.56), *Zelotes longipes* (0.42), *Mustelcosa dimidiata* (0.37), *Ozyptila claveata* (0.37), *Asagena phalerata* (0.30).

Stratum: ground, herb.

Range: AncientMediterranean (European-CentralAsian) Subboreal-subarid.

***Thanatus formicinus* (Clerck, 1757)**

Material (Fig. 225): Alnashy Distr.: Golushurma (**47**): 1 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 2 ♂, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (**51**): 1 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (**38**): 1 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (**33**): 1 ♀, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; Siva's delta (**34**): 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov.

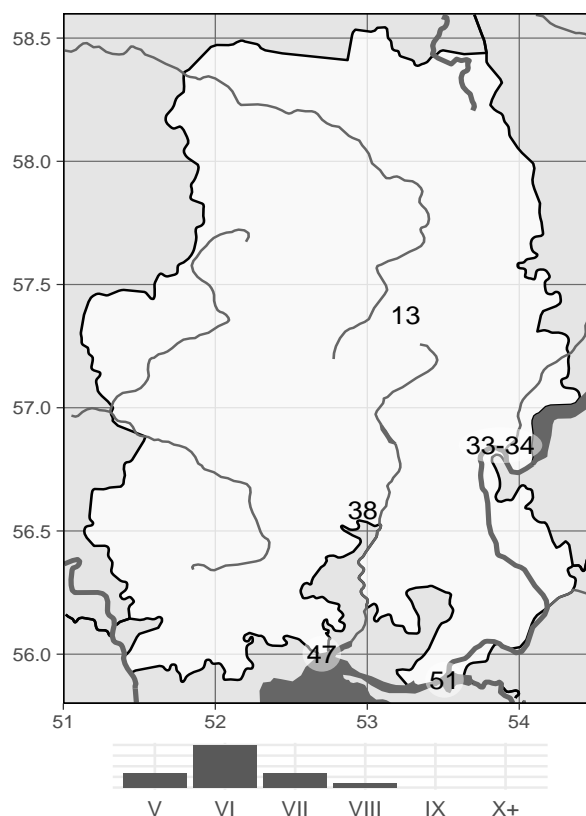


Fig. 225. Distribution map and phenology of *Th. formicinus*

Biotope preferences: III – Dry meadows (18 %), IV – Steppified slope meadows (14 %), II – Meadowlands (7 %), I – All the habitats (6 %), IV – Upland meadows (6 %).

Associated species. Quantitative: *Xysticus kochi* (0.38), *Pisaura mirabilis* (0.24), *Asagena phalerata* (0.20), *Theridion innocuum* (0.17), *Heliophanus flavipes* (0.17). **Qualitative:** *Xysticus kochi* (0.43), *Pisaura mirabilis* (0.31), *Mustelcosa dimidiata* (0.29), *Heliophanus flavipes* (0.26), *Thanatus arenarius* (0.25).

Stratum: ground, herb.

Range: Holarctic (Circum-Holarctic) Polyzoal.

***Thanatus sabulosus* (Menge, 1875)**

Material (Fig. 226): Igra Distr.: Chutyr (**13**): 1 ♂, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (**49**): 1 ♂,

sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 2 ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Noviy (35): 1 ♂, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 7 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

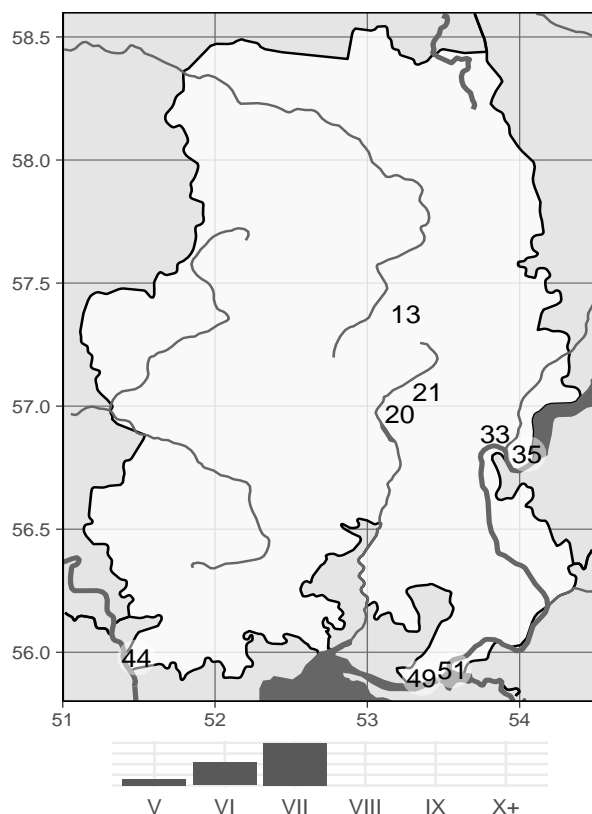


Fig. 226. Distribution map and phenology of *Th. sabulosus*

Biotopic preferences: III – Upland coniferous forests (9 %), IV – *Pinus* forests (8 %), II – Woodlands (6 %), I – All the habitats (6 %), IV – Open banks of rivers (2 %).

Associated species. Quantitative: *Acantholycosa lignaria* (0.35), *Zora nemoralis* (0.25), *Diplocephalus latifrons* (0.25), *Macrargus carpenteri* (0.24), *Cercidia prominens* (0.23). **Qualitative:** *Macrargus carpenteri* (0.35), *Minyriolus pusillus* (0.32), *Ballus chalybeius* (0.31), *Cnephalocotes obscurus* (0.30), *Diplocephalus picinus* (0.30).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal.

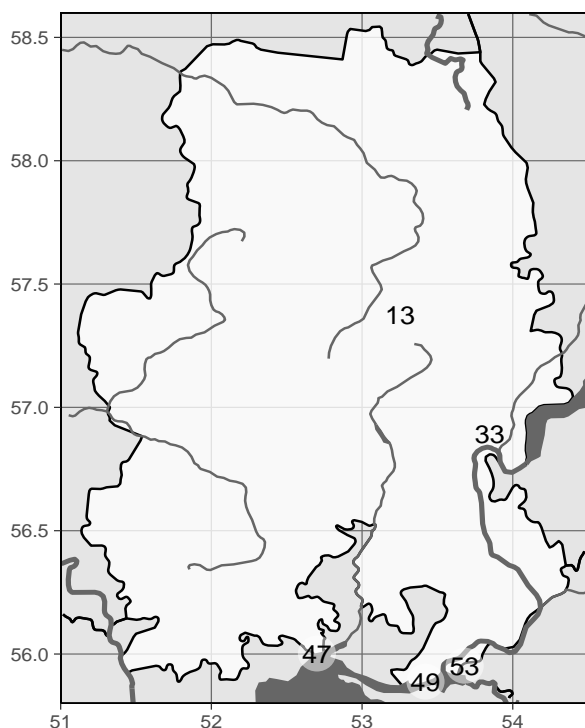
Thanatus striatus C. L. Koch, 1845

Material (Fig. 227): Alnashy Distr.: Golushurma (47): 1 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 juv., bottomland meadow, 25.VI.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashva; 1 juv., bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashva.

Associated species. Quantitative: *Dismodicus bifrons* (0.24), *Argenna subnigra* (0.17), *Euryopis saukea* (0.17), *Rhysodromus histrio* (0.14), *Talavera aequipes* (0.13). **Qualitative:** *Dismodicus bifrons* (0.29), *Rhysodromus histrio* (0.27), *Euryopis saukea* (0.20), *Heliophanus auratus* (0.19), *Argenna subnigra* (0.19).

Stratum: ground.

Range: Holarctic (Circum-Holarctic) Polyzoal.

Fig. 227. Distribution map of *Th. striatus****Tibellus maritimus* (Menge, 1875)**

Material (Fig. 228): Alnashy Distr.: Staryi Utchan (**45**): 1 ♀, bog, 7.VII.2009, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 1 ♀, *Alnus* groves, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Alnus* groves, 24.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (**50**): 2 ♂, 1 subadult ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 1 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Mozhga Distr.: Porshur (**37**): 1 ♂, bank and shore, 21.VII.2008, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (**22**): 1 ♂, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 ♂, faunistic record, 10.VI.2007, leg. A.N. Sozontov; 1 ♂, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 1 ♂, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; Siva's

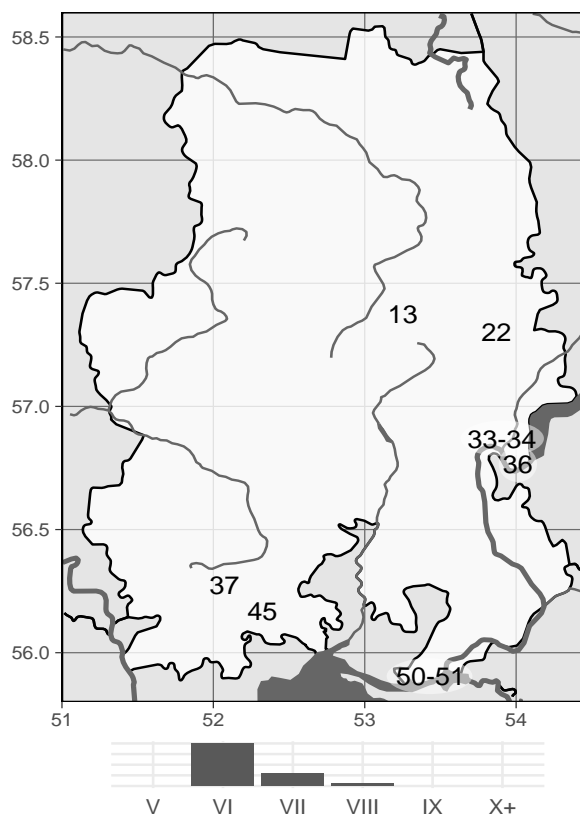
delta (**34**): 1 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; Volkovskiy (**36**): 1 ♂, 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♂, 2 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, bog, 12.VI.2010, leg. A.N. Sozontov.

Biotope preferences: IV – *Alnus* groves (35 %), III – Bogs (27 %), II – Wetlands (25 %), IV – Open banks of stagnant waters (11 %), III – Watersides (8 %).

Associated species. Quantitative: *Clubiona stagnatilis* (0.21), *Larinioides cornutus* (0.18), *Hypsosinga heri* (0.18), *Neoscona adianta* (0.17), *Dolomedes fimbriatus* (0.17). **Qualitative:** *Clubiona stagnatilis* (0.31), *Larinioides cornutus* (0.29), *Tetragnatha extensa* (0.23), *Philodromus cespitum* (0.21), *Dolomedes fimbriatus* (0.19).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Polyzoal.

Fig. 228. Distribution map and phenology of *T. maritimus*

Tibellus oblongus (Walckenaer, 1802)

Material (Fig. 229): Alnashy Distr.: Pirogovo (46): 1 ♀, open pond shore, 10.VII.2009, leg. A.N. Sozontov; 1 ♀, upland meadow, 10.VII.2009, leg. A.N. Sozontov; Golushurma (47): 2 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 2 ♂, 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 2 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 3 ♂, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, anthropogenic habitat, 9.VIII.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, agrocoenosis, 15.VII.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda (49): 1 ♀, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 3 ♀, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 3 ♂, 5 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; 1 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 2 ♂, 2 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Cheganda (52): 4 ♂, 2 ♀, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; 2 ♂, 2 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 6 ♂, 3 ♀, floodplain meadow, 11.VI.2011, leg. A.N.

Sozontov; Kez Distr.: Cheptsa (7): 2 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, 2 subadult ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 2 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Leducchi (32): 1 ♂, 3 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 2 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, 4 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 3 ♀, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 1 ♂, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 3 ♂, 5 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 1 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 2 ♂, 3 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 ♀, sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 5 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 2 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; 1 ♂, 1 ♀, steppified meadow, 30.VI.2017, leg. A.N. Sozontov; Volkovskiy (36): 1 ♂, open lake shore, 20.VI.2009, leg. A.N. Sozontov; 1 ♀, open raised bog, 10.VI.2010, leg.

A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 2 ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♂, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Dictyna arundinacea (0.41), *Tetragnatha pinicola* (0.40), *Phylloneta impressa* (0.40), *Micrommata virescens* (0.38).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Polyzonal.

3.17. PHOLCIDAE

Pholcus alticeps Spassky, 1932

Material (Fig. 230): Izhevsk (24): 1 ♀, Heated dwellings, 13.VIII.2012, leg. A.N. Sozontov; 1 ♀, Heated dwellings, 16.VIII.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, Heated dwellings, 20.NA.2016, leg. S.V. Dedyukhin.

Stratum: synanthrope (inside buildings, underground utilities).

Range: AncientMediterranean (EastEuropean-CentralAsian) Subboreal.

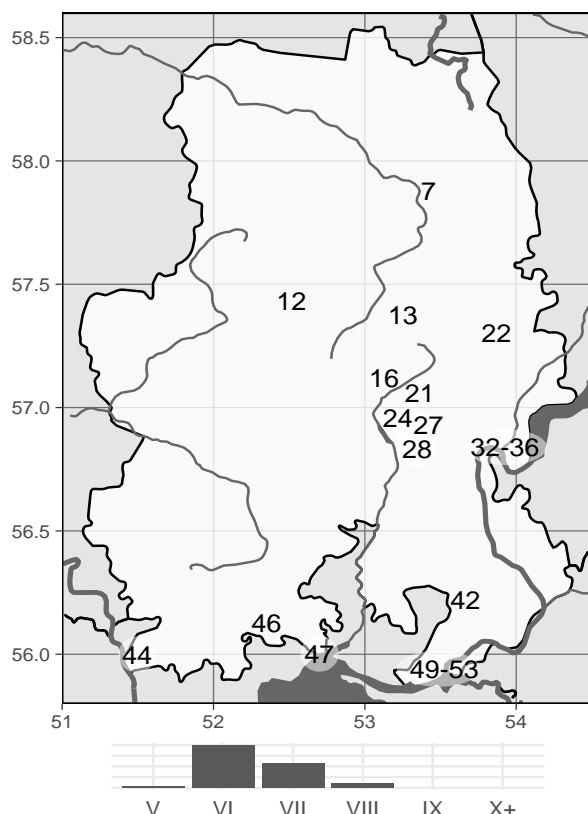


Fig. 229. Distribution map and phenology of *T. oblongus*

Biotope preferences: I – All the habitats (22 %), IV – Edges of broadleaved forests (12 %), II – Anthropogenic habitats (9 %), II – Ecotones (8 %), III – Watersides (7 %).

Associated species. Quantitative: *Evarcha arcuata* (0.34), *Philodromus cespitum* (0.34), *Cheiracanthium erraticum* (0.32), *Micrommata virescens* (0.31), *Tetragnatha pinicola* (0.27). **Qualitative:** *Evarcha arcuata* (0.44),

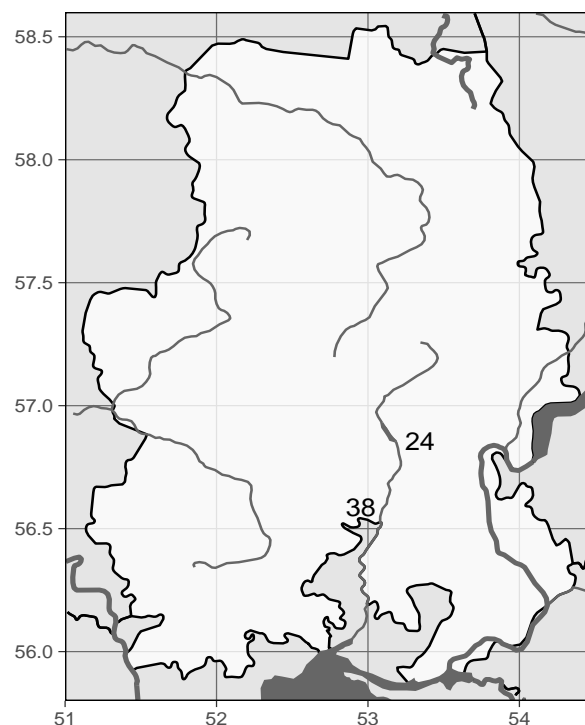


Fig. 230. Distribution map and phenology of *Ph. alticeps*

3.18. PHRUROLITHIDAE

Phrurolithus festivus (C. L. Koch, 1835)

Material (Fig. 231): Alnashy Distr.: Golushurma (47): 1 subadult ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 3 ♂, 2 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, 2 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 2 ♂, 10 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 24.VII.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Shignanda (50): 1 ♀, 1 subadult ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 7 ♀, 1 subadult ♂, 1 juv., open lake shore, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♂, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♂, 2 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 1.VII.2016, leg. A.V. Uskova; Siva's delta (34): 5 ♂, 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 2 ♀, edge of coniferous forest, 23.VII.2014, leg. A.N. Sozontov; 1 ♀, *Tilia*

forest, 23.VII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, 3 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♂, 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 5 ♀, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

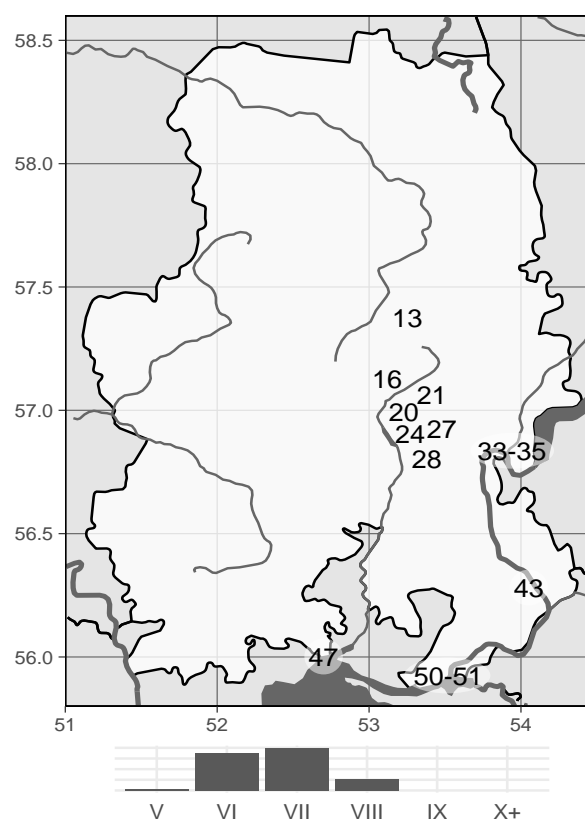


Fig. 231. Distribution map and phenology of *Ph. festivus*

Biotope preferences: I – All the habitats (15 %), IV – Floodplain broadleaved forests (10%), III – Floodplain

deciduous forests (9 %), II – Woodlands (6 %), IV – Open banks of stagnant waters (4 %).

Associated species. Quantitative: *Agyneta affinis* (0.21), *Euryopis flavomaculata* (0.21), *Microneta viaria* (0.19), *Robertus lividus* (0.18), *Zelotes subterraneus* (0.16). **Qualitative:** *Euryopis flavomaculata* (0.33), *Microneta viaria* (0.30), *Zelotes subterraneus* (0.30), *Abacoprocetes saltuum* (0.30), *Xysticus luctator* (0.29).

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Subboreal

3.19. PISAURIDAE

Dolomedes fimbriatus (Clerck, 1757)

Material (Fig. 232): Balezino Distr.: Sergino (5): 1 ♂, 3 juv., faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Novye Zyatci (12): 1 ♀, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 5 juv., bog, 6.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 juv., sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 9.VIII.2009, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 10.VI.2007, leg. A.N. Sozontov; 1 ♀, faunistic record, 2.VIII.2010, O.A. Semenova; 3 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Siva's delta (34): 1 juv., floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; Volkovskiy (36): 2 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; 1 ♂, bog, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.:

Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov.

Biotopic preferences: III – Bogs (24 %), II – Wetlands (12 %), IV – Open banks of stagnant waters (8 %), I – All the habitats (4 %), IV – Dark coniferous forests with *Tilia* (2 %).

Associated species. Quantitative: *Philodromus poecilus* (0.17), *Tibellus maritimus* (0.17), *Larinioides ixobolus* (0.16), *Larinioides cornutus* (0.16), *Evarcha falcata* (0.15). **Qualitative:** *Marpissa pomatia* (0.22), *Evarcha falcata* (0.21), *Cnephalocotes obscurus* (0.20), *Tibellus maritimus* (0.19), *Philodromus poecilus* (0.19).

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

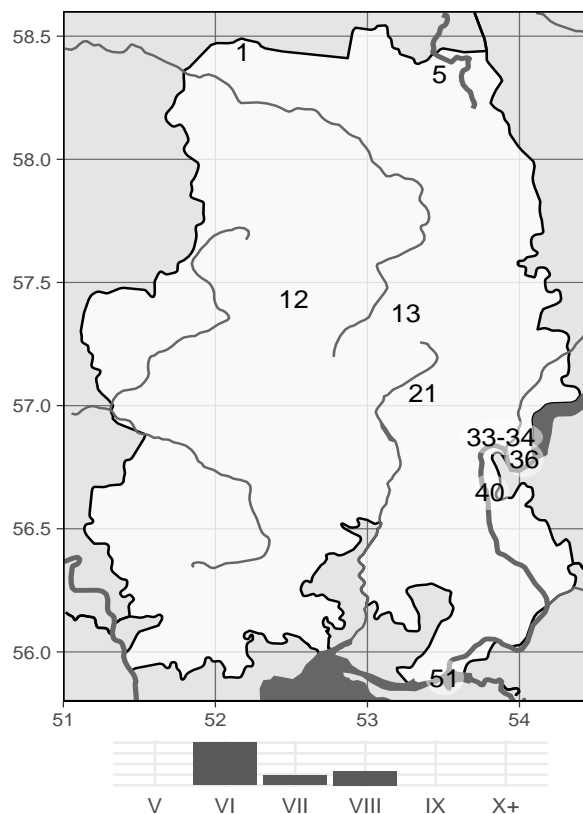


Fig. 232. Distribution map and phenology of *D. fimbriatus*

***Dolomedes plantarius* (Clerck, 1757)**

Material (Fig. 233): Igra Distr.: Chutyr (13): 1 juv., bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova; 1 juv., *Abies-Picea* forest, 14.VI.2011, leg. E.S. Shirobokova; 4 juv., *Alnus* groves, 20.VIII.2011, leg. E.S. Shirobokova; 1 juv., edge of mixed forest, 20.VIII.2011, leg. E.S. Shirobokova; 3 juv., *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; 2 juv., *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., edge of mixed forest, 3.IX.2011, leg. E.S. Shirobokova; 8 juv., open river bank, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., upland meadow, 3.IX.2011, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♂, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 4 juv., open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 juv., open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 subadult ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 juv., floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 juv., *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 juv., open lake shore, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, open lake shore, 7.VI.2013, leg. S.V. Dedyukhin; 1 ♂, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; Noviy (35): 1 ♀, 9 juv., faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 2 juv., faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 1 juv., floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov.

Biotope preferences: IV – *Alnus* groves (45 %), II – Wetlands (29 %), III – Watersides (26 %), I – All the habitats (8 %), IV – Open banks of stagnant waters (7 %).

Associated species. Quantitative: *Attulus floricola* (0.17), *Neriene emphana*

(0.15), *Singa nitidula* (0.14), *Tibellus oblongus* (0.14), *Araneus diadematus* (0.12). **Qualitative:** *Attulus floricola* (0.23), *Pirata piraticus* (0.23), *Larinioides cornutus* (0.22), *Enoplognatha ovata* (0.20), *Araneus quadratus* (0.20).

Stratum: ground, herb.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

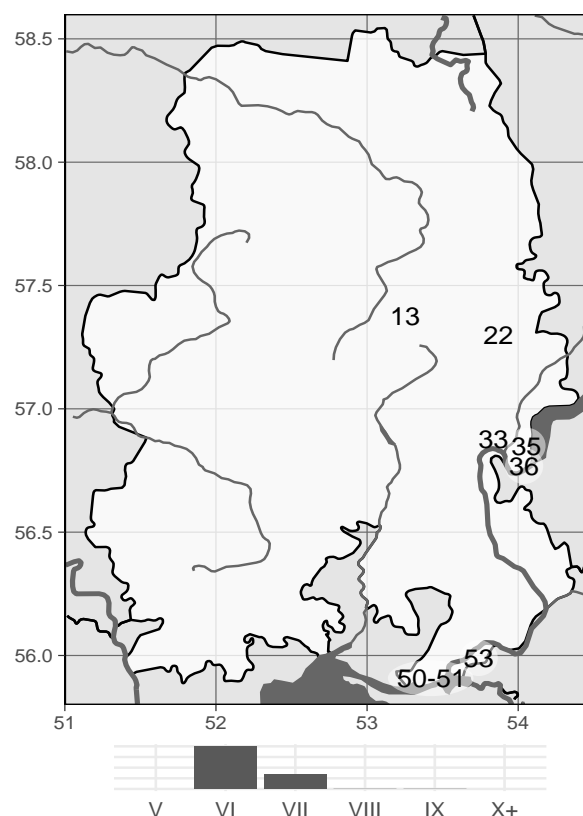


Fig. 233. Distribution map and phenology of *D. plantarius*

***Pisaura mirabilis* (Clerck, 1757)**

Material (Fig. 234): Alnashy Distr.: Staryi Utchan (45): 1 ♀, bog, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Izhevsk (24): 1 ♂, 1 subadult ♂, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda

(49): 1 ♀, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; Ust'-Belsk (51): 1 ♀, sloping steppe meadow, 9.VII.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 2 juv., faunistic record, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, 2 juv., anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sharkan Distr.: Sharkan (22): 1 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 juv., bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 subadult ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

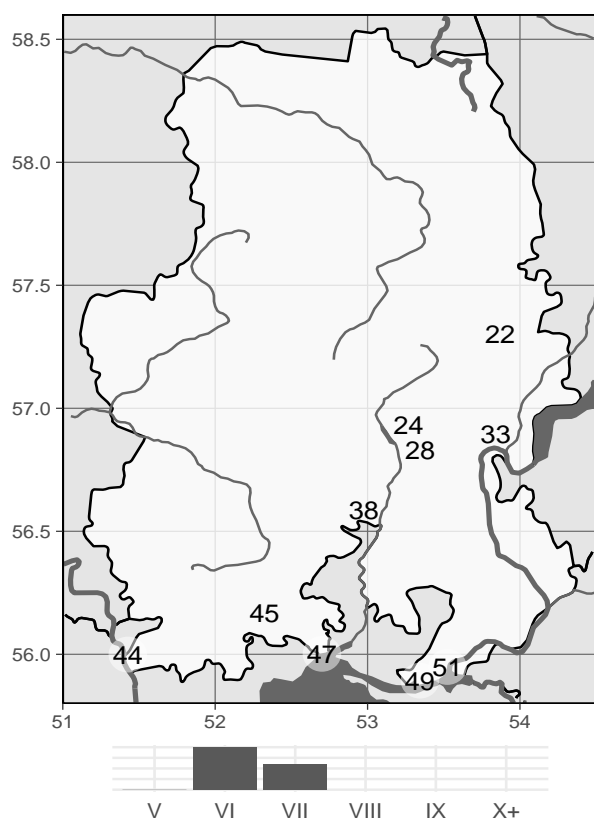


Fig. 234. Distribution map and phenology of *P. mirabilis*

Biotope preferences: II – Anthropogenic habitats (25 %), IV – Agrophytocenoses (22 %), III – Agrophytocenoses (19 %), IV – Steppified slope meadows (5 %), III – Bogs (5 %).

Associated species. Quantitative: *Thanatus formicinus* (0.24), *Xysticus kochi* (0.24), *Hypsosinga sanguinea* (0.17), *Neoscona adianta* (0.14), *Philodromus poecilus* (0.14). **Qualitative:** *Thanatus formicinus* (0.31), *Xysticus kochi* (0.29), *Microlinyphia pusilla* (0.21), *Hypsosinga sanguinea* (0.21), *Neoscona adianta* (0.21).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal-subarid

3.20. SALTICIDAE

Aelurillus v-insignitus (Clerck, 1757)

Material: Votkinsk Distr.: Noviy (35): 2 ♂, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Attulus dzieduszyckii (L. Koch, 1870)

Material (Fig. 235): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, 2 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 3 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 juv., edge of mixed forest, 16.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 5 ♂, 4 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, 3 juv., open river bank, 3.VIII.2012, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 3 ♂, 1 ♀, sloping steppe meadow,

28.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (**34**): 1 ♂, open river bank, 21.VI.2009, leg. A.N. Sozontov; Noviy (**35**): 4 ♂, 2 ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov; 1 ♀, open river bank, 10.VII.2012, leg. S.V. Dedyukhin; Zavyalovo Distr.: Doksha (**29**): 1 ♂, open river bank, 20.VI.2008, leg. A.N. Sozontov; 1 ♂, open river bank, 10.VIII.2010, leg. A.N. Sozontov.

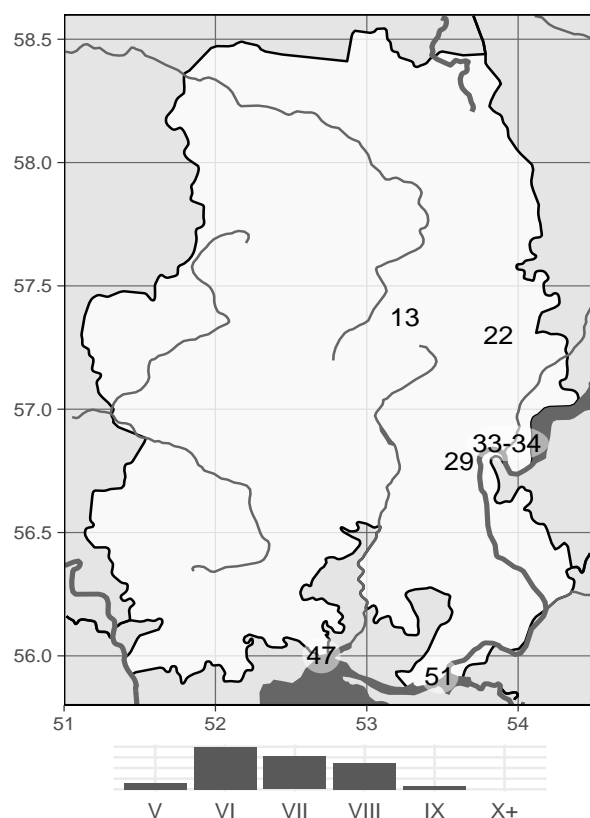


Fig. 235. Distribution map and phenology of *A. dzieduszyckii*

Biotope preferences: IV – Open banks of rivers (29 %), III – Watersides (27 %), II – Wetlands (23 %), IV – Edges of mixed forests (9 %), I – All the habitats (6 %).

Associated species. Quantitative: *Tetragnatha dearmata* (0.26), *Tetragnatha shoshone* (0.24), *Tetragnatha striata* (0.19), *Attulus floricola* (0.17), *Titanoeca spominima* (0.15). **Qualitative:** *Mustelica dimidiata* (0.36), *Theridion pinastri* (0.33), *Titanoeca spominima*

(0.29), *Tetragnatha dearmata* (0.27), *Arctosa cinerea* (0.24).

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

Attulus floricola (C. L. Koch, 1837)

Material (Fig. 236): Alnashy Distr.: Staryi Utchan (**45**): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; 1 ♀, open lake shore, 8.VII.2009, leg. A.N. Sozontov; Golushurma (**47**): 1 ♀, sloping steppe meadow, 25.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (**5**): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (**13**): 1 ♀, bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (**50**): 3 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 1 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; 3 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 2 ♂, 3 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Malyashi (**53**): 1 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (**22**): 1 ♀, floodplain steppified meadow, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Noviy (**35**): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin.

Biotope preferences: III – Watersides (37 %), IV – Edges of mixed forests (33 %), II – Wetlands (31 %), IV – Open banks of stagnant waters (21 %), IV – Open banks of rivers (8 %).

Associated species. Quantitative: *Tetragnatha striata* (0.50), *Tetragnatha shoshone* (0.48), *Clubiona phragmitis* (0.35), *Tetragnatha nigrita* (0.31), *Larinioides suspicax* (0.23). **Qualitative:**

Tetragnatha striata (0.44), *Larinioides suspicax* (0.38), *Tetragnatha shoshone* (0.35), *Clubiona phragmitis* (0.33), *Clubiona stagnatilis* (0.27).

Stratum: litter, herb.

Range: Holarctic (Circum-Holarctic) Temperate.

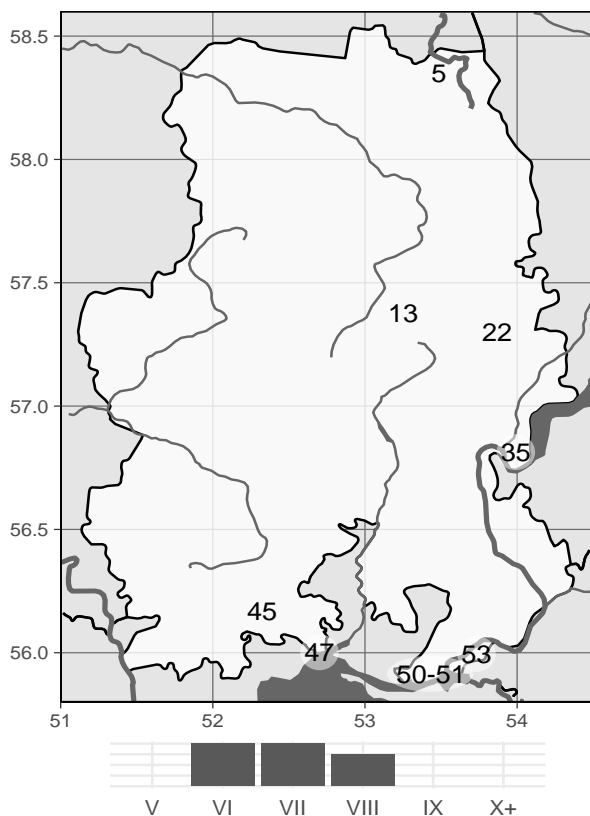


Fig. 236. Distribution map and phenology of *A. floricola*

Attulus saltator (O. Pickard-Cambridge, 1868)

Material (Fig. 237): Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 2 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov.

Stratum: ground.

Range: Euro-Siberian (European-WestSiberian) Subboreal-subarid.

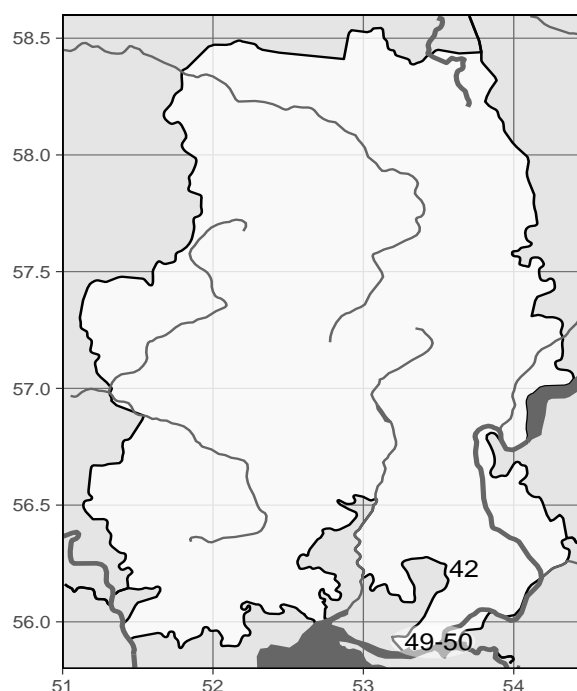


Fig. 237. Distribution map of *A. saltator*

Attulus terebratus (Clerck, 1757)

Material (Fig. 238): Kez Distr.: Chepts (7): 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sarapul Distr.: Nechkino Zakamye (40): 2 ♂, Unheated indoor spaces, 15.VIII.2009, leg. A.N. Sozontov; Vavozh Distr.: Vavozh (23): 1 ♀, heated dwellings, 21.VII.2012, M.N. Zagumenov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♂, heated dwellings, 25.VI.2010, leg. A.N. Sozontov; 2 ♂, unheated indoor spaces, 25.VII.2011, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♂, 1 ♀, faunistic record, 1.VII.2017, leg. A.N. Sozontov.

Associated species. Quantitative: *Pityohyphantes phrygianus* (0.24), *Oedothorax apicatus* (0.20), *Pachygnatha clercki* (0.16), *Araneus angulatus* (0.15), *Leviellus stroemi* (0.14). **Qualitative:** *Leviellus stroemi* (0.24), *Steatoda bipunctata* (0.19), *Pityohyphantes phrygianus* (0.18), *Troxochrus scabriculus* (0.18), *Oedothorax apicatus* (0.17).

Stratum: tree stems, synanthrope (outside buildings, inside buildings).

Range: Euro-Siberian (European-MiddleSiberian) Temperate.

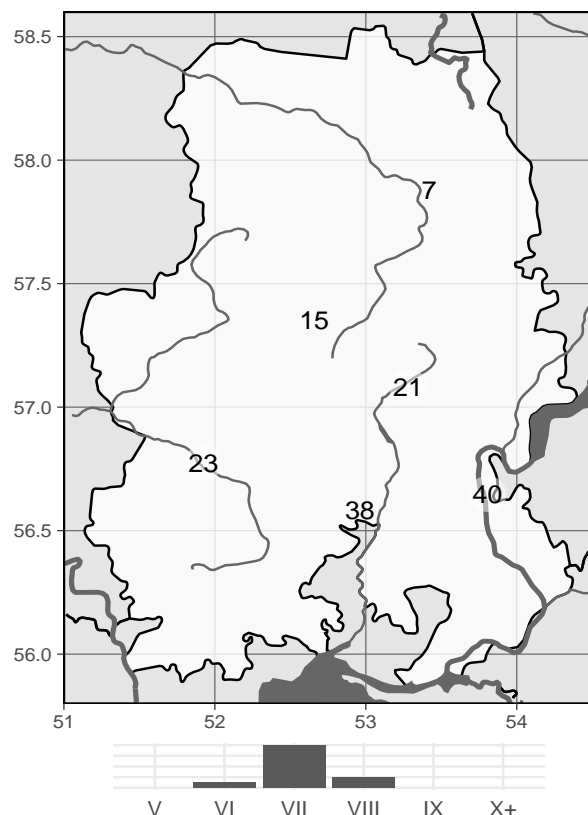


Fig. 238. Distribution map and phenology of *A. terebratus*

***Ballus chalybeius* (Walckenaer, 1802)**

Material (Fig. 239): Alnashy Distr.: Golushurma (**47**): 1 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 1 ♂, edge of mixed forest, 25.VI.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (**49**): 1 subadult ♂, riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 1 juv., open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; Malyashi (**53**): 1 ♀, riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (**44**): 1 ♂, open river bank, 25.V.2013, leg. A.N. Sozontov;

Sarapul Distr.: Bima (**42**): 1 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhoe) (**33**): 1 juv., *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 juv., *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Siva's delta (**34**): 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Zavyalovo Distr.: Khohryaki (**27**): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

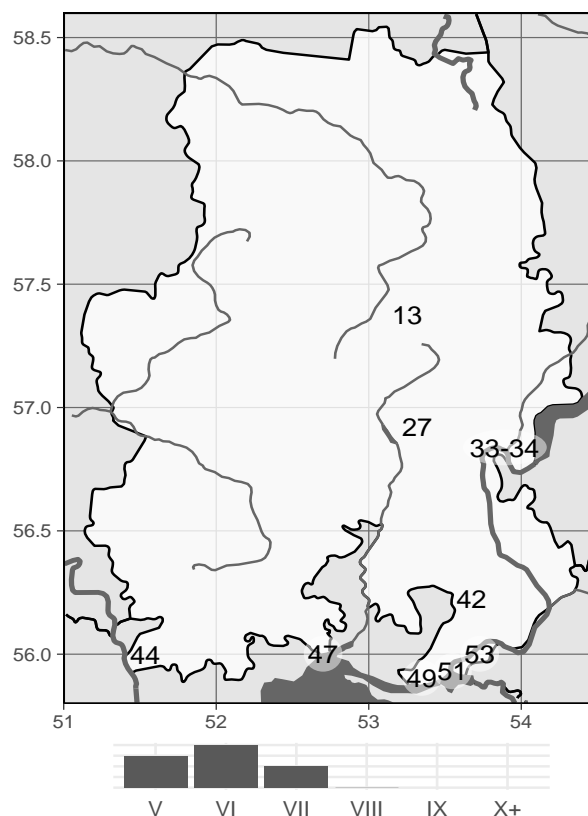


Fig. 239. Distribution map and phenology of *B. chalybeius*

Biotope preferences: IV – Edges of mixed forests (16 %), I – All the habitats (6 %), III – Upland *Tilia* forests (5 %), II – Wetlands (4 %), III – Floodplain deciduous forests (4 %).

Associated species. Quantitative: *Heliophanus cupreus* (0.29), *Thanatus sabulosus* (0.22), *Linyphia hortensis* (0.21), *Xysticus lanio* (0.21), *Anyphaena accentuata* (0.20). **Qualitative:** *Thanatus sabulosus* (0.31), *Dictyna uncinata* (0.28), *Anyphaena accentuata* (0.25),

Heliophanus cupreus (0.24), *Neottiura bimaculata* (0.21).

Stratum: herb, shrub.

Range: Palaearctic (West-Palaearctic) Subboreal.

Dendryphantès rudis (Sundevall, 1833)

Material (Fig. 240): Igra Distr.: Chutyr (13): 1 ♂, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, 1 subadult ♂, 2 subadult ♀, edge of mixed forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, bog, 6.VIII.2012, leg. E.S. Shirobokova; 2 ♀, 1 juv., *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♀, open river bank, 12.VIII.2012, leg. E.S. Shirobokova; Votkinsk Distr.: Siva's delta (34): 2 ♀, *Pinus* forest, 30.VI.2013, leg. A.V. Uskova.

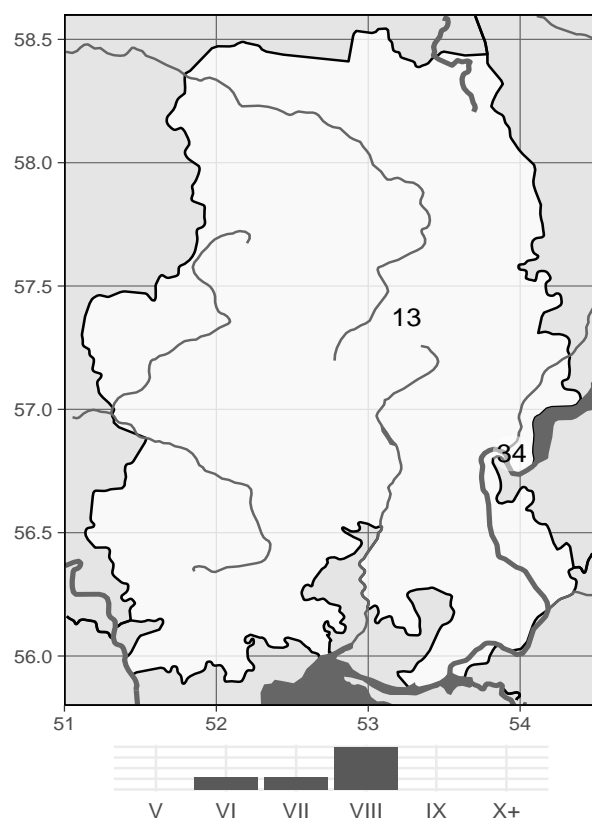


Fig. 240. Distribution map and phenology of *D. rudis*

Associated species. Quantitative: *Araneus diadematus* (0.09), *Mastigusa arietina* (0.09), *Araneus sturmi* (0.09), *Drapetisca socialis* (0.09), *Metellina segmentata* (0.08). **Qualitative:** *Metellina segmentata* (0.14), *Mastigusa arietina* (0.13), *Araneus sturmi* (0.12), *Drapetisca socialis* (0.12), *Allomengea vidua* (0.12).

Stratum: herb, shrub.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

Euophrys frontalis (Walckenaer, 1802)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova.

Stratum: litter, herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Evarcha arcuata (Clerck, 1757)

Material (Fig. 241): Alnashy Distr.: Golushurma (47): 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 2 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, 1 juv., sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 3 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 8 ♂, 6 ♀, 3 subadult ♂, 10 juv., sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 25.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 juv., faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Debesy Distr.: Baygurez (10): 1 ♀, floodplain steppified meadow, 1.VIII.2014, leg. A.N. Sozontov; Glazov Distr.: Lyum (4): 1 ♀, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 juv., edge of mixed forest, 2.VII.2011, leg.

- E.S. Shirobokova; 1 ♂, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, 1 subadult ♂, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 2 ♀, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, agrocoenosis, 15.VII.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 5 ♂, 2 ♀, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 2 ♂, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 2 ♂, 1 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, 2 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Cheganda (52): 1 ♂, 1 subadult ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 4 ♀, 1 subadult ♂, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, 1 subadult ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 subadult ♂, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; 1 ♂, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Mozhga Distr.: Porshur (37): 2 ♂, upland meadow, 21.VII.2009, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 subadult ♂, dark coniferous forest with *Tilia*, 9.VIII.2009, leg. A.N. Sozontov; Sokolovka (43): 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 17.VIII.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 2 ♂, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (32): 8 ♂, 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 5 ♂, 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 ♂, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 1 ♂, watershed mixed forest, 14.VII.2014, leg. A.V. Uskova; 2 ♂, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 2 ♂, watershed mixed forest, 16.VII.2014, leg. A.V. Uskova; 2 ♂, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♂, steppified meadow, 7.VI.2017, leg. A.N. Sozontov; 3 ♂, 8 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 2 ♀, upland meadow, 8.VI.2017, leg. A.N. Sozontov; 9 ♂, 8 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 3 ♂, 3 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; 5 ♂, 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, 3 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashева; 3 ♂, 4 ♀, 1 subadult ♂, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 2 ♂, 1 ♀, floodplain *Quercus* forest, 21.VI.2009,

leg. A.N. Sozontov; 3 ♂, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; 2 ♂, open lake shore, 21.VI.2009, leg. A.N. Sozontov; 1 ♂, 2 ♀, 2 subadult ♂, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; 2 ♀, 1 subadult ♂, floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♂, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 2 ♂, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; 1 ♂, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, sloping steppe meadow, 18.VI.2008, leg. A.N. Sozontov; 1 ♀, agrocoenosis, 17.VI.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, open raised bog, 19.VI.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, open raised bog, 18.VIII.2009, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 2 ♂, 3 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 5 ♂, 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 1 ♂, 3 ♀, 1 subadult ♂, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; 3 ♀, bog, 12.VI.2010, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, *Abies-Picea* forest, 14.VIII.2008, leg. A.N. Sozontov; Selychka (16): 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♂, faunistic record, 1.VII.2017, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♂, 1 ♀, bog, 2.VIII.2014, leg. A.N. Sozontov; 1 ♂, faunistic record, 8.VII.2015, leg. A.N. Sozontov; 3 subadult ♂, 2 subadult ♀, 1 juv., floodplain steppified meadow, 9.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 2 ♂, 2 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Pozym Kabanikha (28):

3 ♂, 4 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov; 2 ♂, 3 ♀, bottomland meadow, 31.VII.2014, leg. A.N. Sozontov; 1 ♂, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov; Golyany Zakamye (31): 1 ♂, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov; 2 ♂, 2 ♀, sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (33 %), II – Meadowlands (27 %), III – Floodplain meadows (19 %), IV – Floodplain hygrophytic meadows (18 %), III – Bogs (14 %).

Associated species. Quantitative: *Tetragnatha pinicola* (0.35), *Tibellus oblongus* (0.34), *Xysticus ulmi* (0.31), *Misumena vatia* (0.31), *Dictyna arundinacea* (0.26). **Qualitative:** *Tibellus oblongus* (0.44), *Tetragnatha pinicola* (0.41), *Xysticus ulmi* (0.41), *Phylloneta impressa* (0.39), *Dictyna arundinacea* (0.39).

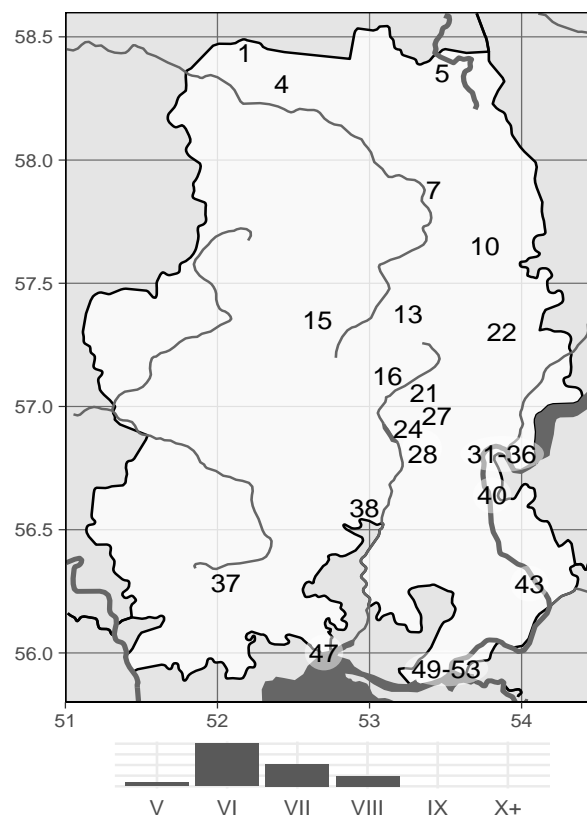


Fig. 241. Distribution map and phenology of *E. arcuata*

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic)
Temperate.

Evarcha falcata (Clerck, 1757)

Material (Fig. 242): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 2 ♂, 2 ♀, 3 juv., sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♂, 2 subadult ♂, 2 juv., edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 subadult ♂, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Debesy Distr.: Baygurez (10): 3 ♀, sloping steppe meadow, 18.V.2011, leg. S.V. Dedyukhin; 1 ♂, *Pinus* forest, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 2 juv., *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 subadult ♂, dark coniferous forest with *Tilia*, 25.VI.2011, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 6.VII.2012, leg. E.S. Shirobokova; 1 ♀, 2 juv., bog, 6.VIII.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 6.VIII.2012, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 12.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 3 subadult ♂, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 ♂, 2 subadult ♂, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 subadult ♂, riverain deciduous forest,

8.VII.2011, leg. A.N. Sozontov; Malyashi (53): 2 juv., open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsas (7): 4 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Mozhga Distr.: Porshur (37): 1 ♂, upland meadow, 21.VII.2009, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 5 ♀, 3 subadult ♂, 3 juv., *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, faunistic record, 10.VI.2007, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 24.VIII.2011, leg. A.N. Sozontov; 1 ♀, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov; Siva's delta (34): 1 ♂, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♂, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovskiy (36): 1 subadult ♂, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, 1 ♀, 1 subadult ♂, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, 1 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, *Pinus* forest, 17.VII.2017, leg.

S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VIII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, 1 subadult ♀, faunistic record, 25.VII.2012, leg. A.N. Sozontov; 1 ♂, 1 subadult ♂, faunistic record, 8.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Doksha (29): 1 ♂, open river bank, 20.VI.2008, leg. A.N. Sozontov.

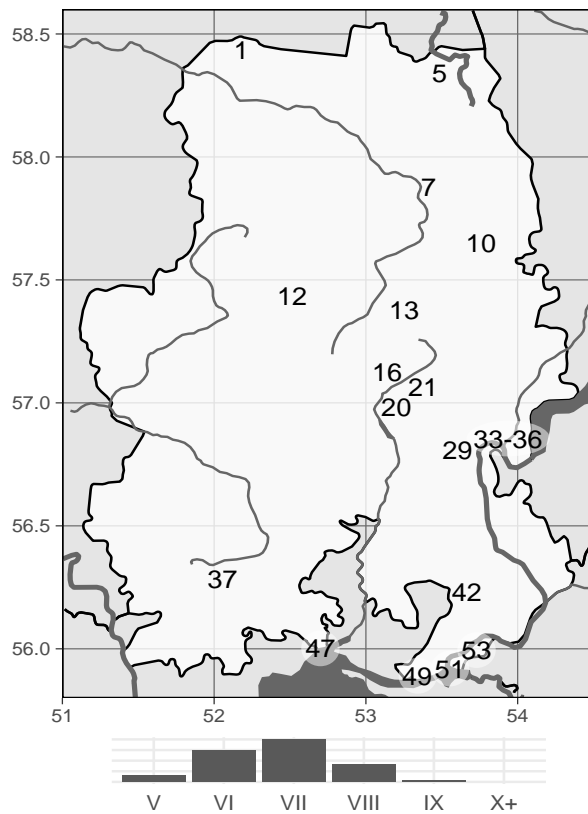


Fig. 242. Distribution map and phenology of *E. falcata*

Biotope preferences: I – All the habitats (21 %), III – Upland coniferous forests (9 %), IV – *Pinus* forests (8 %), III – Bogs (8 %), II – Woodlands (7 %).

Associated species. Quantitative: *Tmarus piger* (0.17), *Xysticus luctuosus*

(0.16), *Minyriolus pusillus* (0.16), *Zelotes petrensis* (0.15), *Dolomedes fimbriatus* (0.15). **Qualitative:** *Alopecosa aculeata* (0.37), *Zelotes subterraneus* (0.33), *Trochosa terricola* (0.31), *Minyriolus pusillus* (0.28), *Haplodrassus soerenseni* (0.27).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Evarcha michailovi Logunov, 1992

Stratum: herb, shrub.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Remarks: there are no collected materials. The species is provided on literature data with no exact georeference [Zubko, Roshchinenko, 1981].

Heliophanus auratus C. L. Koch, 1835

Material (Fig. 243): Alnashy Distr.: Golushurma (47): 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, edge of mixed forest, 29.VII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 7 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, open river bank, 6.VII.2011, leg. A.N. Sozontov; 3 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♂, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, open river bank, 3.VIII.2012, leg. A.N. Sozontov; 1 ♀, faunistic record, 4.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 2 ♂, 5 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 1 ♂, 3 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀,

edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (32): 1 ♂, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 1 ♀, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, 3 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashova; 1 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashova; 3 ♂, 1 ♀, 3 juv., bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashova; Siva's delta (34): 2 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 2 ♂, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

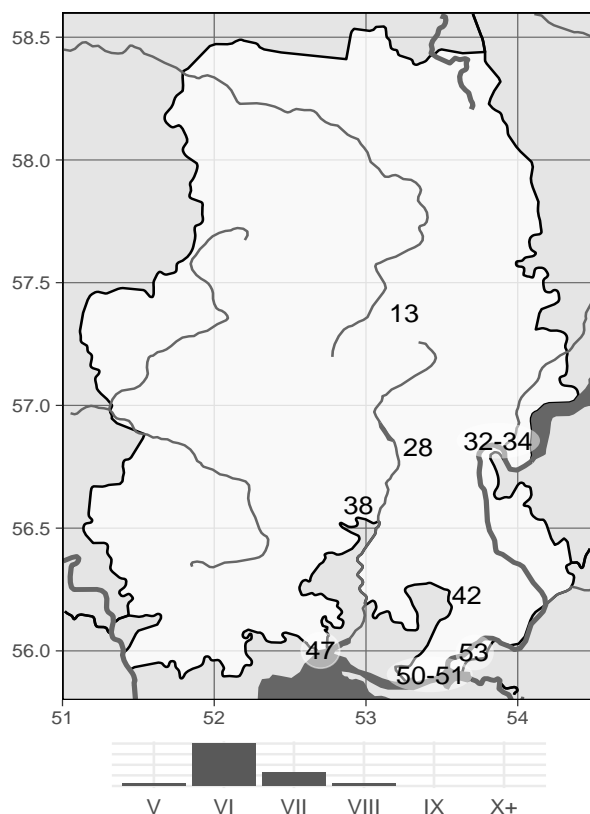


Fig. 243. Distribution map and phenology of *H. auratus*

Biotopic preferences: IV – Open banks of stagnant waters (25 %), III – Watersides (17 %), II – Wetlands (16 %), I – All the habitats (8 %), III – Floodplain meadows (6 %).

Associated species. Quantitative: *Larinioides suspicax* (0.40), *Xysticus ulmi* (0.37), *Clubiona phragmitis* (0.28), *Hypsosinga pygmaea* (0.26), *Tetragnatha striata* (0.24). **Qualitative:** *Larinioides suspicax* (0.43), *Hypsosinga pygmaea* (0.37), *Micrommata virescens* (0.37), *Tibellus oblongus* (0.32), *Tetragnatha extensa* (0.31).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Subboreal-subarid.

Heliophanus camtschadalicus

Kulczyński, 1885

Material: Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin.

Stratum: herb.

Range: Euro-Siberian (North European-Siberian) Boreal.

Heliophanus cupreus (Walckenaer, 1802)

Material (Fig. 244): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♂, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 2 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (West-Palaearctic) Subboreal.

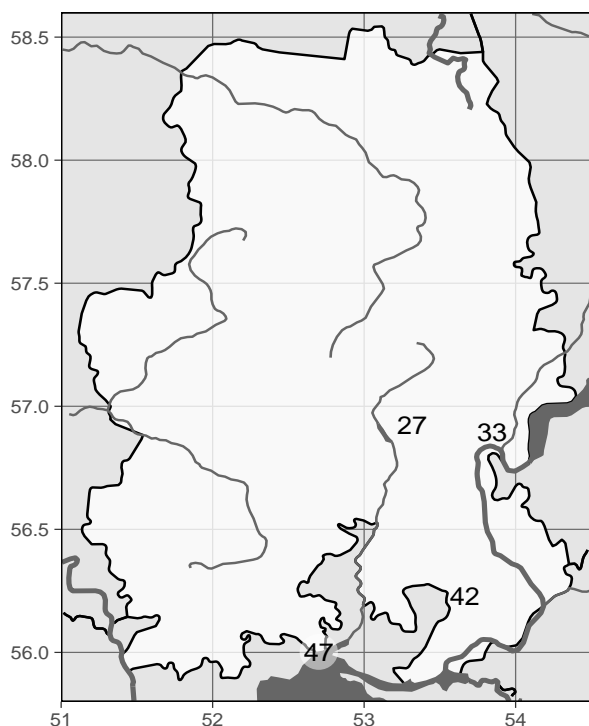


Fig. 244. Distribution map of *H. cupreus*

***Heliophanus dubius* C. L. Koch, 1835**

Material (Fig. 245): Debesy Distr.: Baygurez (10): 1 ♂, sloping steppe meadow, 18.V.2011, leg. S.V. Dedyukhin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 2 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova.

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Heliophanus flavipes* (Hahn, 1832)**

Material (Fig. 246): Alnashy Distr.: Golushurma (47): 5 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 2 ♂, 2 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 25.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 2 ♀, sloping steppe

meadow, 7.VII.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 2 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Volkovski (36): 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Biotope preferences: IV – Steppified slope meadows (18 %), III – Dry meadows (8 %), II – Meadowlands (6 %), I – All the habitats (4 %), IV – Open banks of rivers (2 %).

Associated species. Quantitative: *Theridion innocuum* (0.31), *Microlinyphia pusilla* (0.29), *Tibellus oblongus* (0.18), *Thanatus formicinus* (0.17), *Xysticus kochi* (0.17). **Qualitative:** *Episinus angulatus* (0.29), *Theridion innocuum* (0.27), *Thanatus formicinus* (0.26), *Hypsosinga sanguinea* (0.25), *Neriene radiata* (0.24).

Stratum: herb.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

***Heliophanus lineiventris* Simon, 1868**

Material: Votkinsk Distr.: Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova.

Stratum: herb.

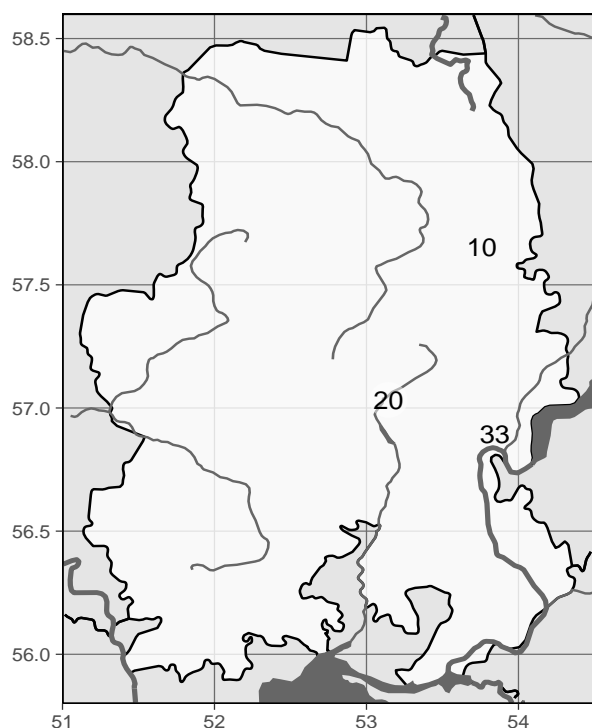
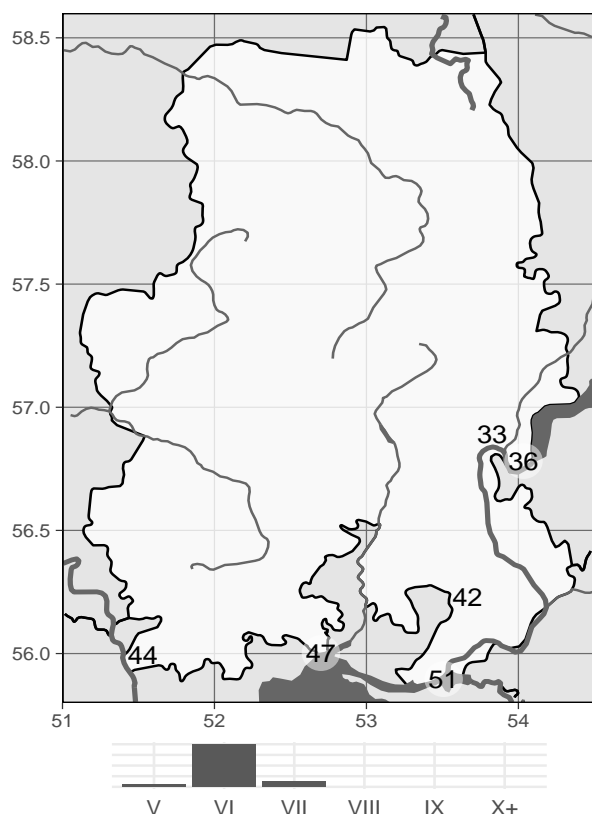
Range: Palaearctic (Trans-Palaearctic) Subboreal-subarid.

***Marpissa muscosa* (Clerck, 1757)**

Material: Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (Amphi-Palaearctic) Subboreal.

Fig. 245. Distribution map of *H. dubius*Fig. 246. Distribution map and phenology of *H. flavipes*

Marpissa pomatia (Walckenaer, 1802)

Material (Fig. 247): Balezino Distr.: Sergino (5): 1 ♀, faunistic record,

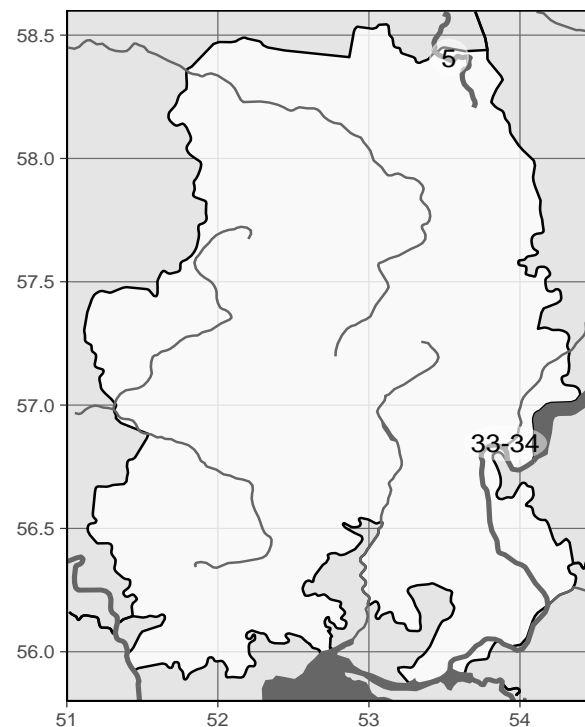
6.VI.2011, leg. S.V. Dedyukhin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 juv., bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; 1 ♀, upland meadow, 8.VI.2017, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova.

Associated species. Qualitative:

Dolomedes fimbriatus (0.22), *Pityohyphantes phrygianus* (0.22), *Metellina mengei* (0.20), *Microlinyphia pusilla* (0.20), *Hypsosinga heri* (0.18).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Fig. 247. Distribution map of *M. pomatia*

Marpissa radiata (Grube, 1859)

Material (Fig. 248): Karakulino Distr.: Ust'-Belsk (51): 1 ♀, 1 subadult ♂, 4 juv., open river bank, 3.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov.

Stratum: herb.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

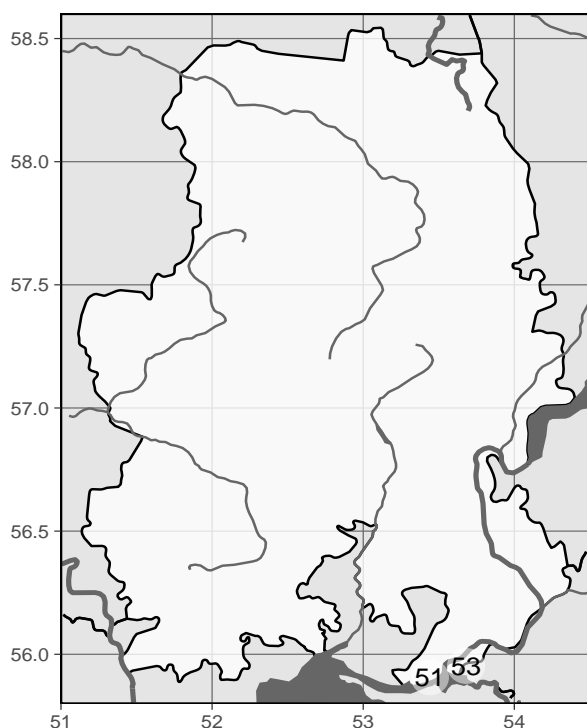


Fig. 248. Distribution map and phenology of *M. radiata*

Neon reticulatus (Blackwall, 1853)

Material (Fig. 249): Yakshur-Bodya Distr.: Selychka (16): 2 ♂, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Associated species. Qualitative: *Xysticus audax* (0.36), *Centromerus incilium* (0.27), *Agyneta cauta* (0.25), *Lathys heterophthalma* (0.25), *Lathys humilis* (0.25).

Stratum: litter.

Range: Holarctic (Sub-CircumHolarctic) Temperate.

Phlegra fasciata (Hahn, 1826)

Material (Fig. 250): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, 1 juv., sloping

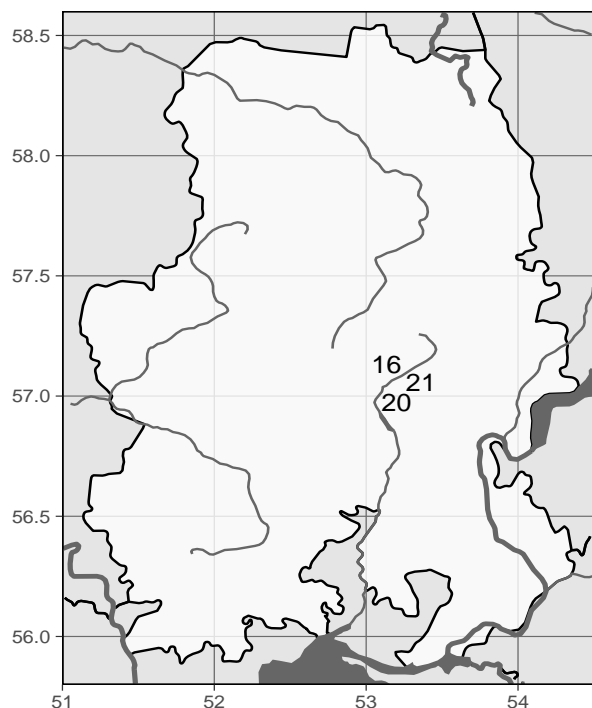
steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 juv., sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 juv., upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 7.VIII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, Heated dwellings, 20.X.2012, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, bottomland meadow, 10.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 subadult ♂, watershed mixed forest, 27.VI.2014, leg. A.V. Uskova; 1 juv., watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; Volkovskiy (36): 1 juv., *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Biotope preferences: IV – Edges of mixed forests (18 %), II – Meadowlands (9 %), III – Dry meadows (8 %), IV – Steppified slope meadows (8 %), I – All the habitats (6 %).

Associated species. Quantitative: *Talavera aequipes* (0.22), *Drassodes pubescens* (0.20), *Drassyllus praeficus* (0.14), *Zelotes latreillei* (0.13), *Titanoeca spominima* (0.13). **Qualitative:** *Zelotes longipes* (0.30), *Alopecosa farinosa* (0.30), *Drassodes pubescens* (0.27), *Thanatus arenarius* (0.24), *Drassyllus praeficus* (0.23).

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Fig. 249. Distribution map of *N. reticulatus*

Pseudeuophrys erratica (Walckenaer, 1826)

Material: Alnashy Distr.: Golushurma (47): 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov.

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Pseudicius encarpatus (Walckenaer, 1802)

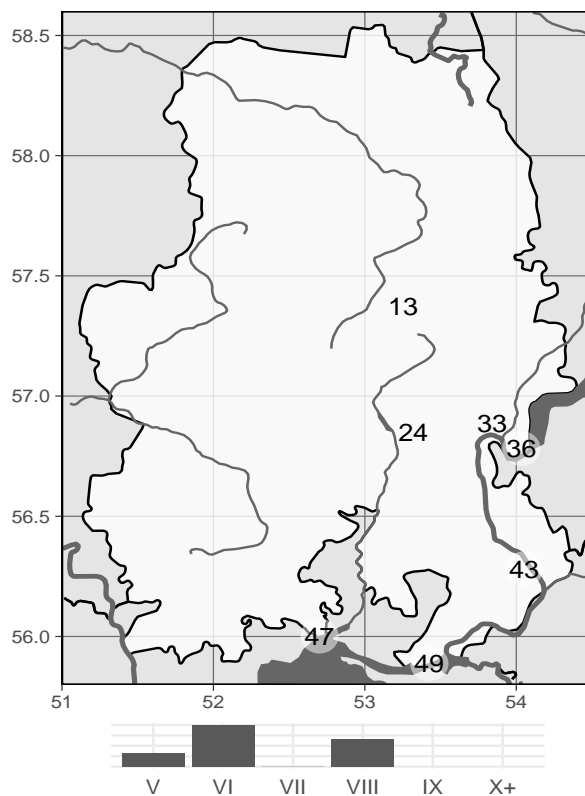
Material: Karakulino Distr.: Shignanda (50): 4 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov.

Stratum: herb.

Range: Euro-Siberian (European) Subarid.

Salticus cingulatus (Panzer, 1797)

Material (Fig. 251): Izhevsk (24): 3 subadult ♂, 3 subadult ♀, *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; Siva's delta (34): 1 ♀,

Fig. 250. Distribution map and phenology of *Ph. fasciata*

floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova.

Stratum: tree stems.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Sibianor aurocinctus (Ohlert, 1865)

Material: Votkinsk Distr.: Noviy (35): 1 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Stratum: ground, herb.

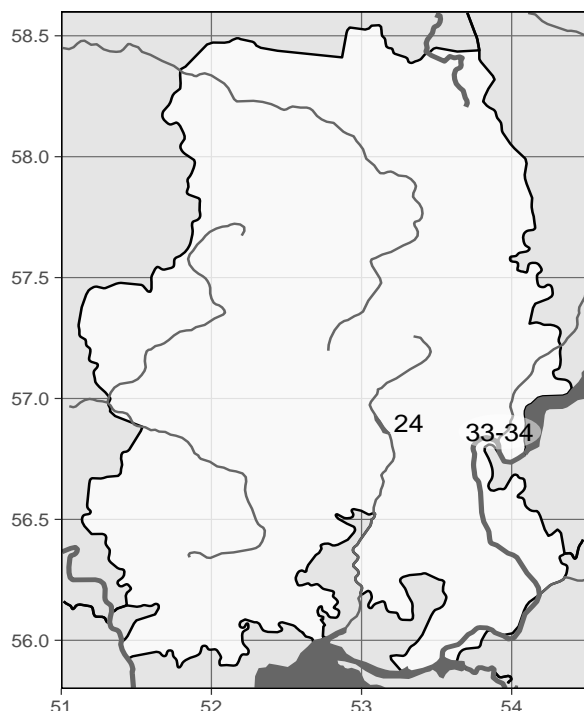
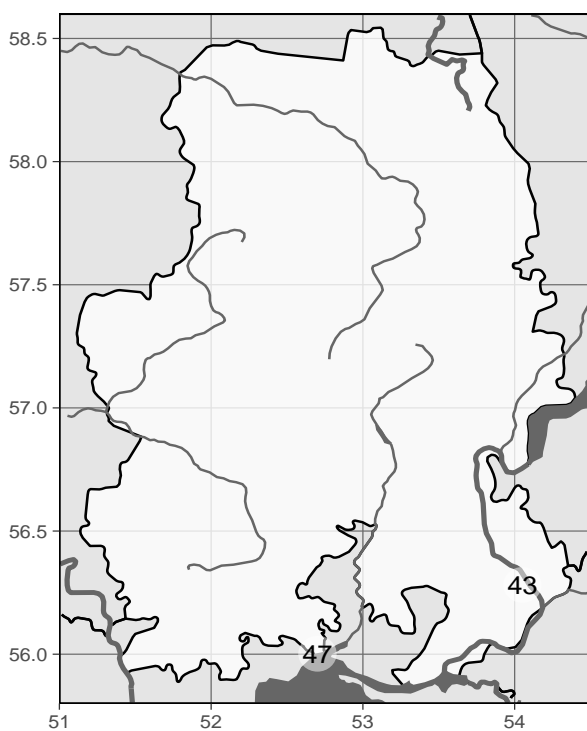
Range: Euro-Siberian (Trans-EuroSiberian) Subboreal.

Sibianor laeae Logunov, 2001

Material (Fig. 252): Alnashy Distr.: Golushurma (47): 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin.

Stratum: ground, herb.

Range: Euro-Siberian (Trans-EuroSiberian) Boreal.

Fig. 251. Distribution map of *S. cingulatus*Fig. 252. Distribution map of *S. laevis****Sibianor tantulus* (Simon, 1868)**

Material: Sarapul Distr.: Dulesovo (41): 1 ♂, faunistic record, 30.VIII.2011, leg. S.V. Dedyukhin.

Stratum: ground, herb.

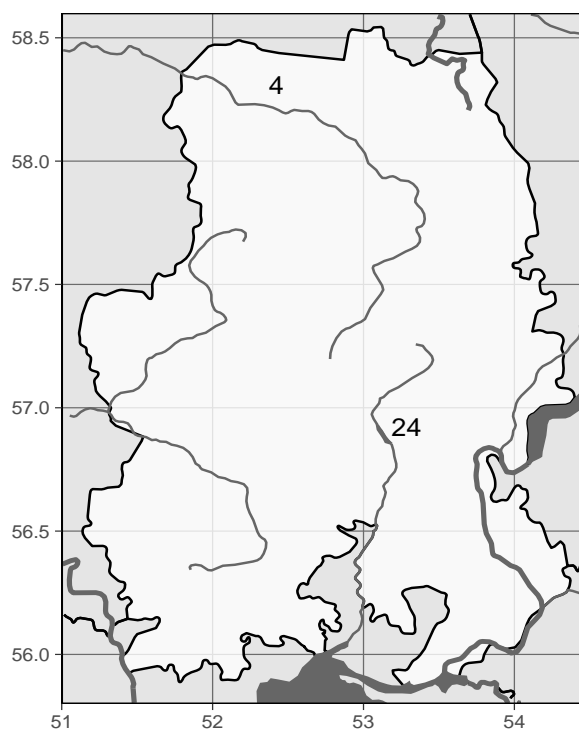
Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

***Synageles venator* (Lucas, 1836)**

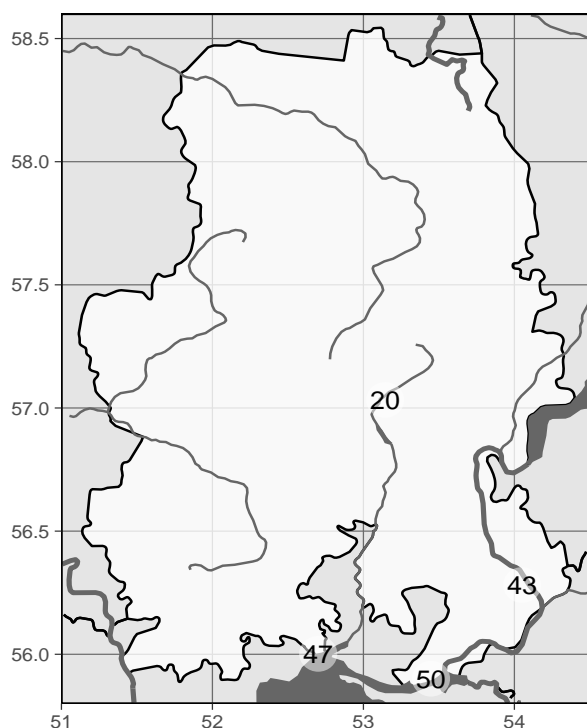
Material (Fig. 253): Glazov Distr.: Lyum(4): 1 ♂, faunistic record, 1.VIII.2014, leg. A.N. Sozontov; 1 ♂, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; Izhevsk (24): 1 juv., agrocoenosis, 15.VII.2013, leg. S.V. Dedyukhin.

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Fig. 253. Distribution map of *S. venator****Talavera aequipes* (O. Pickard-Cambridge, 1871)**

Material (Fig. 254): Alnashy Distr.: Golushurma (47): 2 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; Yakshur-Bodaya Distr.: SNT 'Sirius' (20): 1 ♀, Pinus forest, 1.VII.2018, leg. S.A. Shirobokova.

Fig. 254. Distribution map of *T. aequipes*

Associated species. Qualitative: *Asagena phalerata* (0.30), *Haplodrassus cognatus* (0.29), *Ozyptila claveata* (0.29), *Arctosa figurata* (0.27), *Pachygnatha clercki* (0.27).

Stratum: ground, litter.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Talavera aperta (Miller, 1971)

Material (Fig. 255): Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (**33**): 1 ♀, watershed mixed forest, 4.VII.2014, leg. A.V. Uskova; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (**21**): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Stratum: ground, litter.

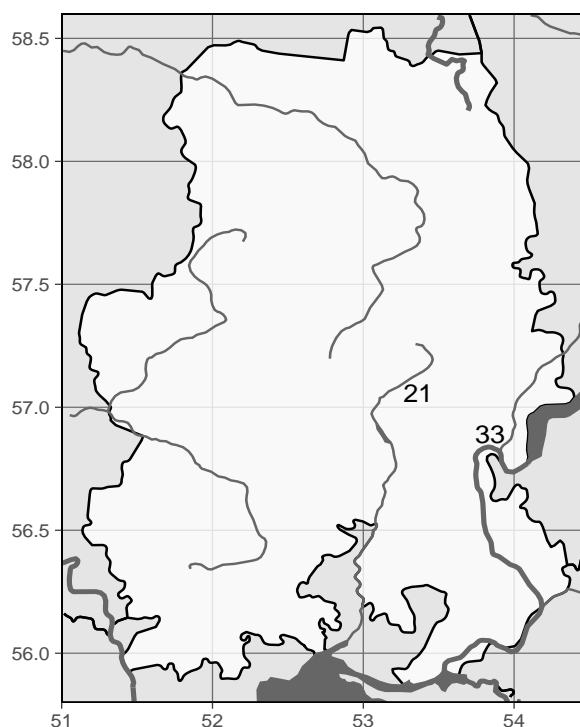
Range: Euro-Siberian (European-MiddleSiberian) Subboreal.

Talavera petrensis (C. L. Koch, 1837)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♀, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova.

Stratum: ground, litter.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Fig. 255. Distribution map of *T. aperta*

3.21. SPARASSIDAE

Micrommata virescens (Clerck, 1757)

Material (Fig. 256): Alnashy Distr.: Golushurma (**47**): 1 juv., sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 juv., edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 15.VII.2014, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 1 subadult ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 2 juv., sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (**50**): 1 ♀,

sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 1 ♂, 2 juv., faunistic record, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 juv., sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 13.VI.2012, leg. A.N. Sozontov; 1 juv., open river bank, 3.VIII.2012, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; Cheganda (52): 1 ♀, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 1 juv., floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 1 juv., open lake shore, 11.VI.2011, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Kiyasovo Distr.: Baisary (48): 1 ♀, faunistic record, 29.VI.2015, L.P. Pyatak; Kizner Distr.: Krymskaya Sludka (44): 1 juv., open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 2 juv., *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, edge of mixed forest, 6.V.2012, M.N. Zagumenov; Votkinsk Distr.: Leducchi (32): 11 juv., faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 1.IX.2009, leg. A.N. Sozontov; 1 juv., floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 2 subadult ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 juv., floodplain *Quercus* forest, 21.VIII.2011, leg. A.N. Sozontov; 1 juv., floodplain *Quercus* forest, 27.VIII.2011, leg. A.N. Sozontov; 2 ♂, 4 ♀, 1 juv., faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 3 ♀, 1 juv., faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 subadult ♀, 4 juv., edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀,

edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 2 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashcheva; Siva's delta (34): 1 ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♀, 1 juv., floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 juv., open raised bog, 18.VIII.2009, leg. A.N. Sozontov; 4 juv., faunistic record, 1.VII.2013, leg. V.I. Kapitonov.

Biotope preferences: I – All the habitats (17 %), III – Floodplain deciduous forests (7 %), IV – Edges of mixed forests (6 %), II – Ecotones (6 %), II – Wetlands (6 %).

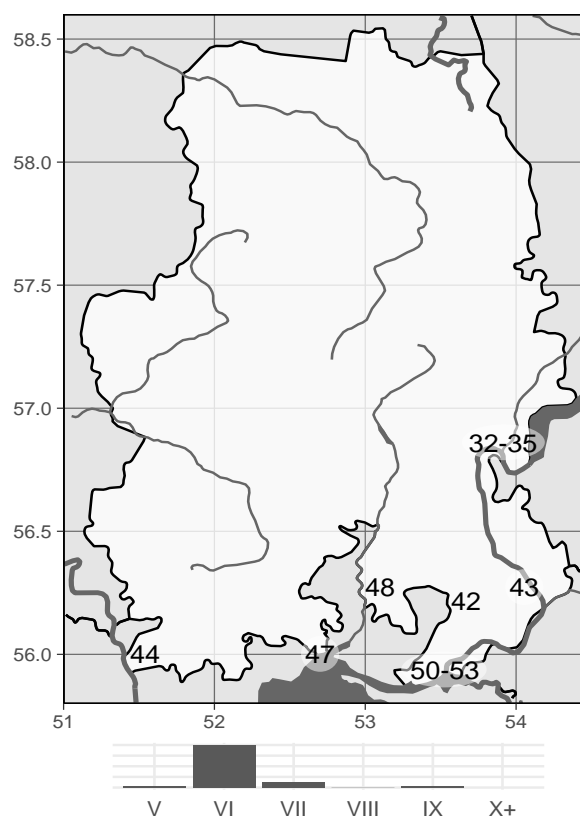


Fig. 256. Distribution map and phenology of *M. virescens*

Associated species. Quantitative: *Tibellus oblongus* (0.31), *Cheiracanthium erraticum* (0.27), *Singa hamata* (0.22), *Philodromus cespitum* (0.22), *Evarcha arcuata* (0.21). **Qualitative:** *Tibellus oblongus* (0.38), *Philodromus cespitum* (0.38), *Heliophanus auratus* (0.37), *Ebrechtella tricuspidata* (0.33), *Xysticus ulmi* (0.31).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

3.22. TETRAGNATHIDAE

Metellina menzei (Blackwall, 1869)

Material (Fig. 257): Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Debesy Distr.: Baygurez (10): 1 ♂, sloping steppe meadow, 18.V.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 ♀, Unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; Votkinsk Distr.: Noviy (35): 3 ♀, open river bank, 19.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova.

Associated species. Qualitative: *Hackmania prominula* (0.22), *Heliophanus dubius* (0.22), *Pityohyphantes phrygianus* (0.22), *Araneus alsine* (0.20), *Centromerita bicolor* (0.20).

Stratum: herb.

Range: Palaearctic (West-Palaearctic) Temperate.

Metellina merianae (Scopoli, 1763)

Material: Votkinsk Distr.: Noviy (35): 1 ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov.

Stratum: caves, rocks, tree stems.

Range: Palaearctic (West-Palaearctic) Temperate.

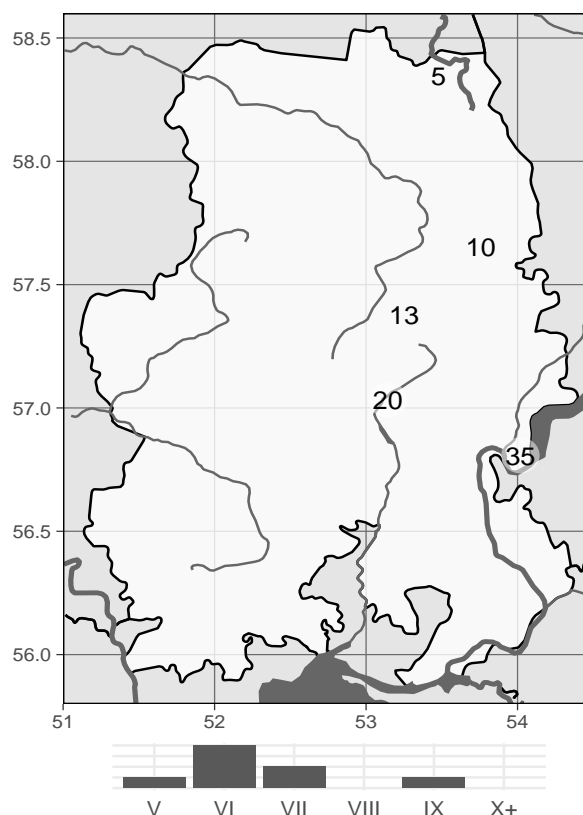


Fig. 257. Distribution map and phenology of *M. menzei*

Metellina segmentata (Clerck, 1757)

Material (Fig. 258): Alnashy Distr.: Golushurma (47): 2 ♂, 3 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 ♀, *Alnus* groves, 20.VIII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 20.VIII.2011, leg. E.S. Shirobokova; 2 ♂, *Alnus* groves, 3.IX.2011, leg. E.S. Shirobokova; 3 ♀, bog, 6.VIII.2012, leg. E.S. Shirobokova; 2 ♀, dark coniferous forest with *Tilia*, 6.VIII.2012, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; 3 ♂, 1 ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, dark coniferous

forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova; 2 ♀, edge of mixed forest, 12.VIII.2012, leg. E.S. Shirobokova; 2 ♀, *Abies-Picea* forest, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 27.VIII.2012, leg. E.S. Shirobokova; 2 ♂, 3 ♀, faunistic record, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, 2 ♀, edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; **Karakulino Distr.:** Byrgynda (**49**): 2 ♀, riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; 6 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; 1 ♀, Unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; Ust'-Belsk (**51**): 1 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; **Kez Distr.:** Cheptsya (**7**): 2 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; **Votkinsk Distr.:** 'Siva' biostation (Perevozhnoe) (**33**): 1 ♀, 2 juv., floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 8 ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 6 ♂, 3 ♀, floodplain *Quercus* forest, 19.VIII.2011, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 26.VIII.2011, leg. A.N. Sozontov; Siva's delta (**34**): 4 ♂, 1 ♀, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; Noviy (**35**): 5 ♂, 3 ♀, open river bank, 19.VI.2009, leg. A.N. Sozontov; 3 ♂, 9 ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov; **Yakshur-Bodya Distr.:** Starye Zyatci (**15**): 1 ♀, *Abies-Picea* forest, 28.VII.2012, leg. A.N. Sozontov; Selychka (**16**): 2 ♂, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; **Zavyalovo Distr.:** Doksha (**29**): 5 ♂, 1 ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 11.IX.2010, leg. A.N. Sozontov; Golyany Zakamye (**31**): 2 ♀, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov.

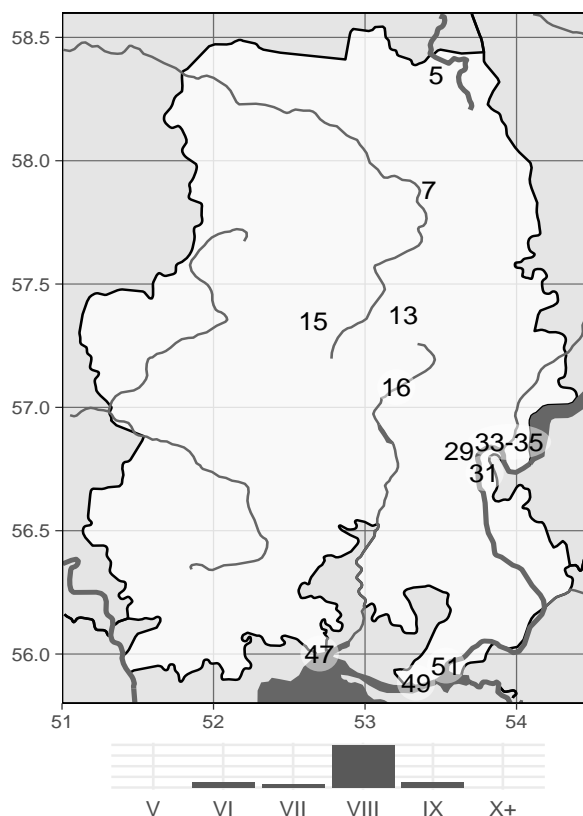


Fig. 258. Distribution map and phenology of *M. segmentata*

Biotope preferences: III – Upland *Tilia* forests (13 %), I – All the habitats (13 %), IV – *Alnus* groves (12 %), II – Anthropogenic habitats (10 %), II – Wetlands (9 %).

Associated species. Quantitative: *Linyphia triangularis* (0.28), *Araneus diadematus* (0.22), *Helophora insignis* (0.13), *Ebrechtella tricuspidata* (0.13), *Leviellus stroemi* (0.12). **Qualitative:** *Linyphia triangularis* (0.34), *Helophora insignis* (0.27), *Araneus diadematus* (0.23), *Ebrechtella tricuspidata* (0.21), *Tenuiphantes mengei* (0.18).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Temperate.

***Pachygnatha clercki* Sundevall, 1823**

Material (Fig. 259): Igra Distr.: Chutyr (**13**): 1 ♀, open river bank, 29.V.2011, leg. E.S. Shirobokova; **Karakulino Distr.:**

Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; **Kez Distr.:** Cheptsa (7): 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; **Sarapul Distr.:** Sokolovka (43): 1 ♂, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 4 ♂, 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; **Votkinsk Distr.:** 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova.

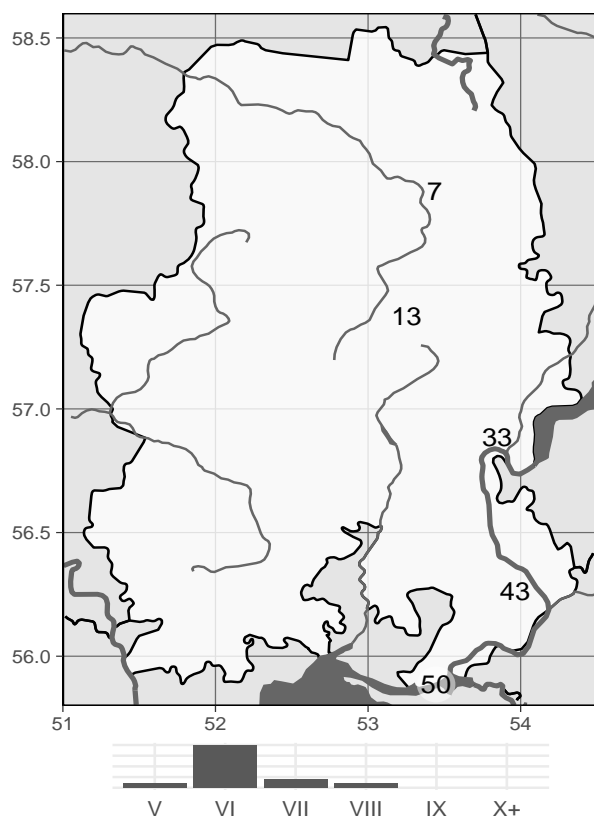


Fig. 259. Distribution map and phenology of *P. clercki*

Associated species. Quantitative: *Oedothorax gibbosus* (0.40), *Ozyptila claveata* (0.28), *Asagena phalerata* (0.26), *Nerienne clathrata* (0.24), *Robertus neglectus* (0.22). **Qualitative:** *Erigone dentipalpis* (0.27), *Oedothorax gibbosus* (0.27), *Talavera aequipes* (0.27), *Asagena phalerata* (0.26), *Arctosa stigmata* (0.25).

Stratum: ground, herb.

Range: Holarctic (Circum-Holarctic) Polyzoal.

***Pachygnatha degeeri* Sundevall, 1830**

Material (Fig. 260): Igra Distr.: Chuty (13): 1 ♀, bottomland meadow, 21.V.2011, leg. E.S. Shirobokova; 1 juv., open river bank, 29.V.2011, leg. E.S. Shirobokova; 1 juv., bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, anthropogenic habitat, 9.VIII.2012, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, open river bank, 12.VIII.2012, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 4 ♂, upland meadow, 8.IX.2012, leg. E.S. Shirobokova; **Karakulino Distr.:** Byrgynda (49): 1 ♂, 3 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izboldina; 1 ♀, agrocoenosis, 27.VI.2017, leg. A.N. Izboldina; 1 ♂, 1 ♀, unheated indoor spaces, 27.VII.2017, leg. A.N. Izboldina; **Kez Distr.:** Cheptsa (7): 2 ♂, 4 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; **Sarapul Distr.:** Nechkino Zakamye (40): 1 ♀, floodplain steppified meadow, 9.VI.2009, leg. A.N. Sozontov; Sokolovka (43): 16 ♂, 56 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 14 ♂, 50 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin; **Yakshur-Bodya Distr.:** SNT

'Sirius' (20): 1 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

Biotope preferences: III – Agrophytocenoses (18 %), II – Anthropogenic habitats (17 %), III – Floodplain meadows (16 %), IV – Floodplain hygrophytic meadows (14 %), I – All the habitats (11 %).

Associated species. Quantitative: *Pachygnatha listeri* (0.49), *Drassyllus lutetianus* (0.48), *Trochosa ruricola* (0.32), *Pardosa maisa* (0.25), *Pardosa sphagnicola* (0.23). **Qualitative:** *Pardosa paludicola* (0.30), *Xerolycosa miniata* (0.30), *Pardosa agrestis* (0.30), *Pardosa palustris* (0.27), *Drassodes pubescens* (0.24).

Stratum: ground, herb.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

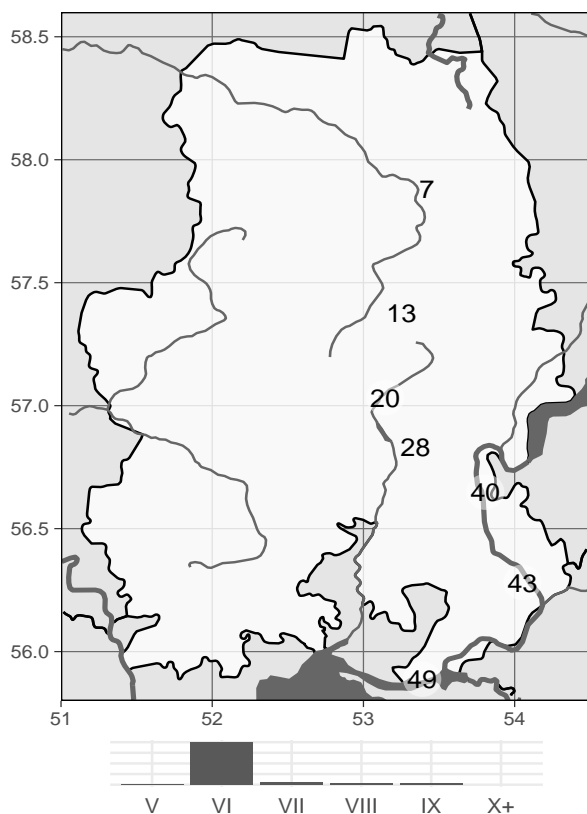


Fig. 260. Distribution map and phenology of *P. degeeri*

Pachygnatha listeri Sundevall, 1830

Material (Fig. 261): Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 juv., upland meadow, 3.IX.2011, leg. E.S. Shirobokova; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; Sokolovka (43): 13 ♂, 25 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 37 ♂, 14 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 11 ♂, 9 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♀, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 6 ♂, 5 ♀, upland meadow, 26.VI.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, faunistic record, 10.VI.2007, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; 2 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VIII.2009, leg. A.N. Sozontov; 5 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 5 ♂, 6 ♀, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 1 ♂, 2 ♀, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 23.VII.2016, leg. A.V. Uskova; 3 ♂, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 1 ♂, 1 ♀, floodplain *Quercus* forest, 20.VIII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 1.IX.2016, leg. A.V. Uskova; 1 ♂, 9 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 4 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 3 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 3 ♀, bottomland meadow,

22.VI.2017, leg. Ya.A. Chuvashева; 1 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 3 ♂, 4 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♂, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, watershed coniferous forest, 17.V.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 22.VII.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 subadult ♂, faunistic record, 25.VII.2012, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, 3 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 3 ♂, 4 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 1 ♂, 2 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

Biotopic preferences: IV – Floodplain hygrophytic meadows (33 %), I – All the habitats (17 %), III – Floodplain meadows (15 %), II – Meadowlands (11 %), IV – Floodplain *Quercus* forests (8 %).

Associated species. Quantitative: *Pachygnatha degeeri* (0.49), *Drassyllus lutetianus* (0.49), *Pardosa prativaga* (0.33), *Trochosa ruricola* (0.26), *Pardosa sphagnicola* (0.21). **Qualitative:** *Pardosa prativaga* (0.36), *Microneta viaria* (0.33), *Ozyptila trux* (0.25), *Bathypantes nigrinus* (0.24), *Xysticus ulmi* (0.23).

Stratum: ground, herb.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

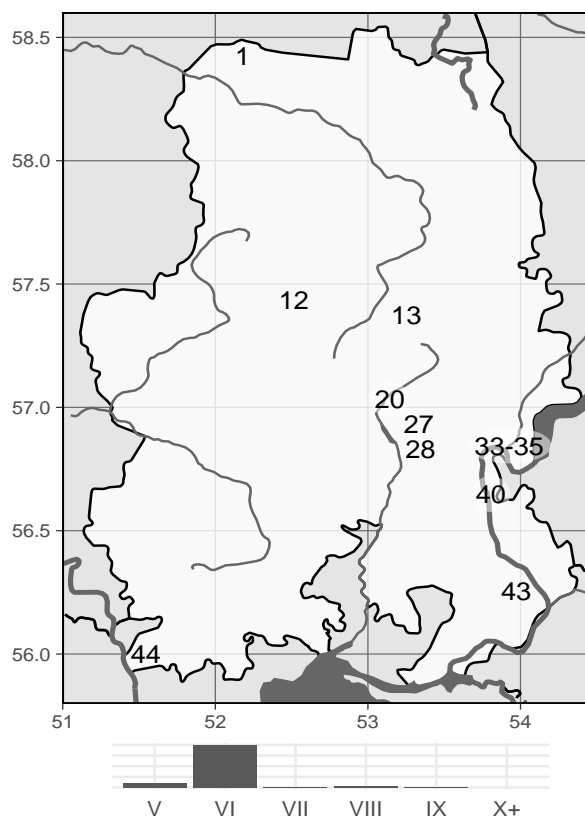


Fig. 261. Distribution map and phenology of *P. listeri*

Tetragnatha dearmata Thorell, 1873

Material (Fig. 262): Alnashy Distr.: Golushurma (47): 1 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 2 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 3 ♂, 4 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 2 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♂, 1 ♀, open lake/pond shore, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsu (7): 3 ♂, 2 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Makarovo (39): 1 ♂, open river bank, 10.VI.2009, leg. A.N. Sozontov; Votkinsk Distr.:

'Siva' biostation (Perevozhnoe) (33): 2 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 1 ♂, 1 ♀, floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, 2 ♀, open river bank, 19.VI.2009, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 1 ♂, open river bank, 19.VIII.2009, leg. A.N. Sozontov; 3 ♂, open river bank, 2.VII.2010, leg. A.N. Sozontov; 3 ♂, open river bank, 10.VII.2012, leg. S.V. Dedyukhin; Zavyalovo Distr.: Doksha (29): 1 ♂, 1 ♀, open river bank, 20.VI.2008, leg. A.N. Sozontov; Golyany (30): 1 ♂, faunistic record, 10.VI.2009, leg. A.N. Sozontov.

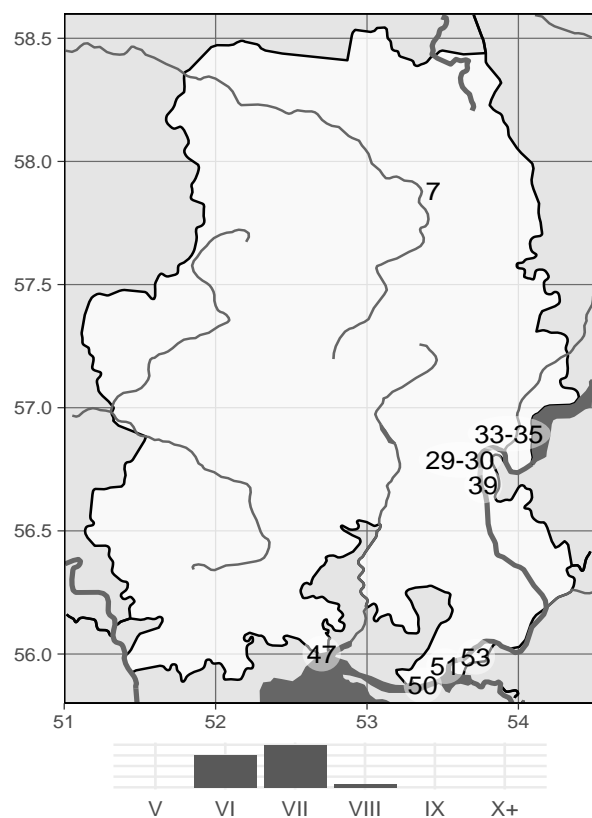


Fig. 262. Distribution map and phenology of *T. dearmata*

Biotope preferences: II – Wetlands (24 %), III – Watersides (23 %), IV – Open banks of rivers (16 %), IV – Open banks of stagnant waters (13 %), I – All the habitats (9 %).

Associated species. Quantitative: *Nerienne montana* (0.29), *Attulus dzieduszyckii* (0.26), *Araneus angulatus* (0.24), *Parasteatoda tabulata* (0.22), *Larinioides patagiatus* (0.20). **Qualitative:** *Nerienne montana* (0.35), *Philodromus cespitum* (0.28), *Attulus dzieduszyckii* (0.27), *Parasteatoda tabulata* (0.27), *Araneus angulatus* (0.27).

Stratum: shrub.

Range: Holarctic (Circum-Holarctic) Temperate.

***Tetragnatha extensa* (Linnaeus, 1758)**

Material (Fig. 263): Alnashy Distr.: Staryi Utchan (45): 1 ♂, open pond shore, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 2 ♂, 3 ♀, 1 subadult ♂, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 2 ♂, 1 subadult ♂, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 2 ♀, 2 subadult ♂, 6 subadult ♀, 2 juv., upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Glazov Distr.: Lyum (4): 2 ♂, 1 ♀, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, 1 subadult ♀, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, 1 subadult ♀, *Alnus* groves, 2.VII.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 2.VII.2011, leg. E.S. Shirobokova; 1 subadult ♀, *Alnus* groves, 16.VII.2011, leg. E.S. Shirobokova; 1 subadult ♀, open river bank, 3.IX.2011, leg. E.S. Shirobokova; 4 juv., *Alnus* groves, 29.VII.2012, leg. E.S. Shirobokova; 8 juv., bottomland meadow,

29.VII.2012, leg. E.S. Shirobokova; 19 juv., open river bank, 29.VII.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 6 juv., bog, 6.VIII.2012, leg. E.S. Shirobokova; 9 juv., *Alnus* groves, 12.VIII.2012, leg. E.S. Shirobokova; 42 juv., bottomland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 2 juv., upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 7 juv., bottomland meadow, 27.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♂, 2 juv., open river bank, 27.VIII.2012, leg. E.S. Shirobokova; 4 juv., upland meadow, 27.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 1 ♀, 1 subadult ♀, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; Shignanda (50): 1 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 1 ♂, 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, open river bank, 6.VII.2011, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; 2 ♂, 3 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsia (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 4 ♂, 1 ♀, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; 1 subadult ♂, 2 juv., upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Votkinsk Distr.: Leducchi (32): 3 juv., faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhoe) (33): 1 juv., floodplain *Quercus* forest, 15.VI.2008, leg. A.N. Sozontov; 1 juv., floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♀, 1 juv., open lake shore, 15.VI.2008, leg. A.N. Sozontov;

1 ♀, floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 2 subadult ♀, 3 juv., faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, 1 ♀, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 1 ♂, 2 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 1 ♀, 3 subadult ♂, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, 3 ♀, 1 subadult ♂, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 3 ♂, 4 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; 2 ♂, 4 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 4 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashева; 2 ♂, 3 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 2 ♀, 2 subadult ♀, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 3 ♂, 2 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, open river bank, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 subadult ♀, open river bank, 10.VI.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovskiy (36): 1 juv., open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♂, 1 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov; Doksha (29): 1 juv., open river bank, 20.VI.2008, leg. A.N. Sozontov.

Biotope preferences: II – Wetlands (27 %), I – All the habitats (24 %), IV – *Alnus* groves (23 %), IV – Floodplain mesophytic meadows (21 %), III – Floodplain meadows (19 %).

Associated species. Quantitative: *Tetragnatha pinicola* (0.26), *Singa*

hamata (0.24), *Evarcha arcuata* (0.23), *Misumena vatia* (0.22), *Pardosa prativaga* (0.20). **Qualitative:** *Evarcha arcuata* (0.38), *Tetragnatha pinicola* (0.36), *Misumena vatia* (0.35), *Tibellus oblongus* (0.34), *Philodromus cespitum* (0.31).

Stratum: herb, shrub, canopy.

Range: Holarctic (Circum-Holarctic) Polyzonal.

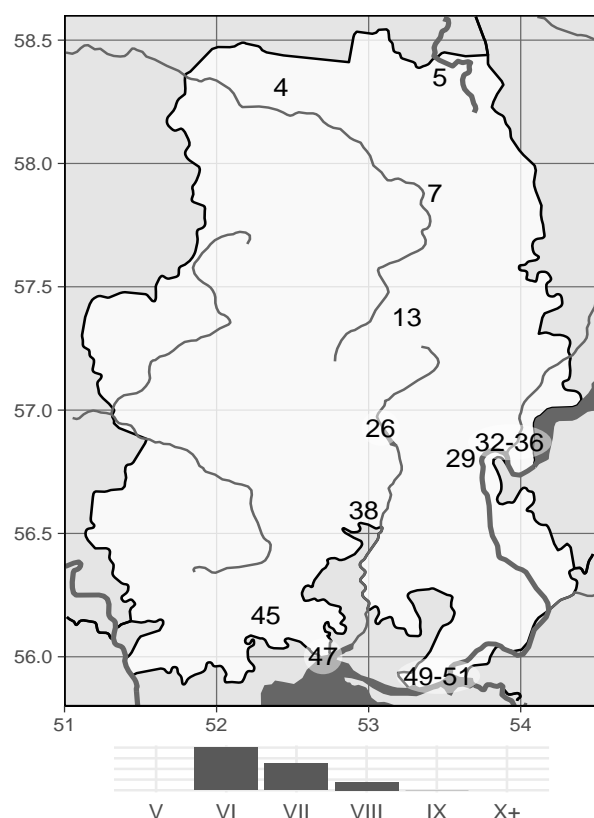


Fig. 263. Distribution map and phenology of *T. extensa*

***Tetragnatha montana* Simon, 1874**

Material (Fig. 264): Karakulino Distr.: Shignanda (50): 4 ♂, 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♀, 1 subadult ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33):

1 ♂, faunistic record, 10.VI.2007, leg. A.N. Sozontov; Siva's delta (34): 1 ♂, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, open river bank, 2.VII.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Zavyalovo Distr.: Volozhka (26): 1 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov.

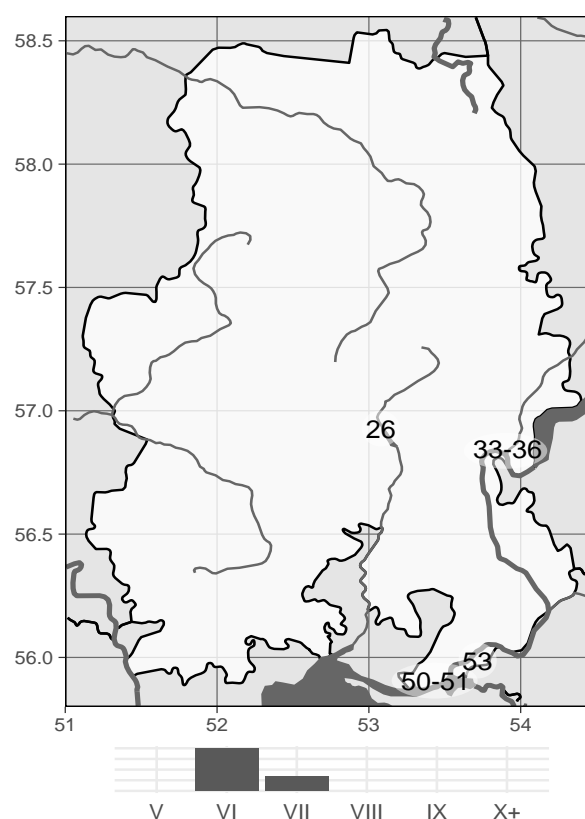


Fig. 264. Distribution map and phenology of *T. montana*

Biotope preferences: II – Wetlands (12 %), III – Watersides (11 %), IV – Open banks of stagnant waters (6 %), IV – Floodplain mesophytic meadows (4 %), IV – Open banks of rivers (4 %).

Associated species. Quantitative: *Agyneta saaristoi* (0.31), *Philodromus poecilus* (0.29), *Larinioides suspicax*

(0.28), *Larinioides ixobolus* (0.23), *Argyroneta aquatica* (0.18). **Qualitative:** *Philodromus poecilus* (0.32), *Larinioides ixobolus* (0.30), *Theridion varians* (0.29), *Argyroneta aquatica* (0.25), *Attulus floricola* (0.24).

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Tetragnatha nigrita Lendl, 1886

Material (Fig. 265): Karakulino Distr.: Shignanda (50): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♂, 9 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 2 ♂, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Votkinsk Distr.: Noviy (35): 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin.

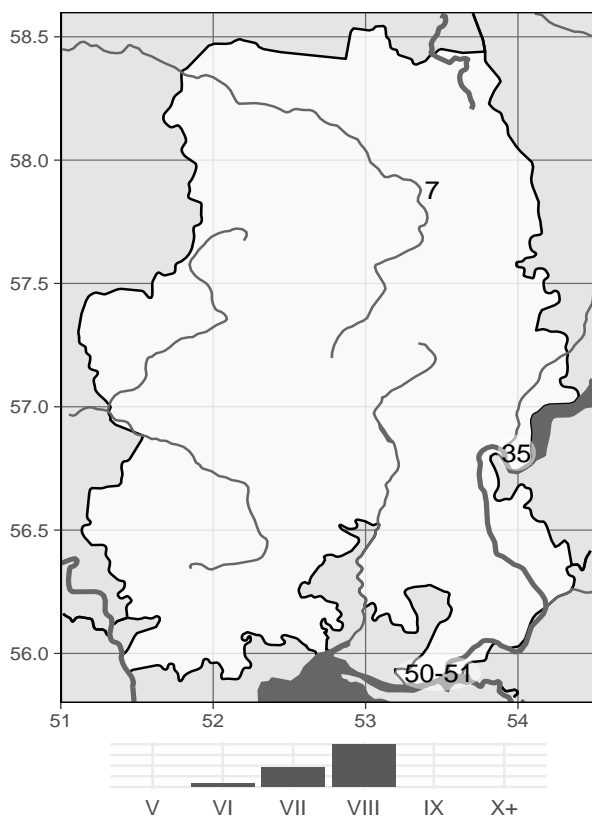


Fig. 265. Distribution map and phenology of *T. nigrita*

Associated species. Quantitative: *Tetragnatha shoshone* (0.50), *Attulus floricola* (0.31), *Tetragnatha striata* (0.26), *Araneus angulatus* (0.22), *Pityohyphantes phrygianus* (0.17). **Qualitative:** *Araneus angulatus* (0.30), *Tetragnatha shoshone* (0.25), *Pityohyphantes phrygianus* (0.22), *Tetragnatha striata* (0.22), *Attulus floricola* (0.21).

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Tetragnatha obtusa C. L. Koch, 1837

Material (Fig. 266): Karakulino Distr.: Shignanda (50): 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Cheganda (52): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 1 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Bima (42): 1 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; Siva's delta (34): 1 ♂, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 30.VI.2017, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, open lake shore, 20.VI.2009, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♀, faunistic record, 8.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Doksha (29): 1 ♂, open river bank, 10.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: IV – Open banks of stagnant waters (14 %), III – Agrophytocenoses (8 %), II – Wetlands (7 %), III – Watersides (7 %), IV – Agrophytocenoses (5 %).

Associated species. Quantitative: *Hypomma bituberculatum* (0.25), *Attulus saltator* (0.24), *Pityohyphantes phrygianus*

(0.22), *Phylloneta sisypchia* (0.20), *Agyneta saaristoi* (0.19). **Qualitative:** *Hypomma bituberculatum* (0.27), *Pityohyphantes phrygianus* (0.27), *Phylloneta sisypchia* (0.24), *Hypsosinga heri* (0.24), *Larinioides cornutus* (0.23).

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

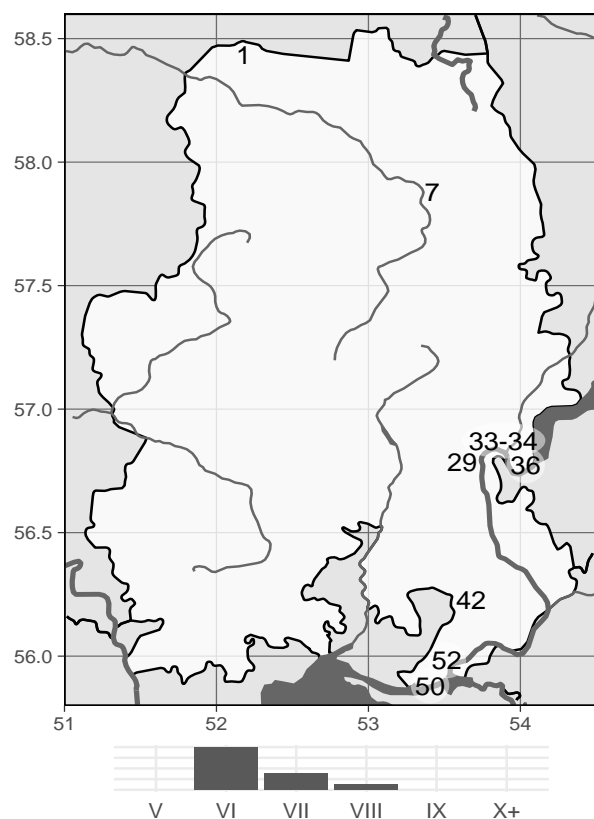


Fig. 266. Distribution map and phenology of *T. obtusa*

***Tetragnatha pinicola* L. Koch, 1870**

Material (Fig. 267): Alnashy Distr.: Golushurma (47): 1 juv., sloping steppe meadow, 24.V.2013, leg. A.N. Sozontov; 2 ♂, 4 ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 3.VI.2015, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, 2 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov;

1 ♂, 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, floodplain steppified meadow, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 2 ♂, 6 ♀, edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 2 ♀, anthropogenic habitat, 13.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 16.VII.2011, leg. E.S. Shirobokova; 1 juv., upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 10 juv., upland meadow, 29.VII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, 1 ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 2 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; 1 ♀, *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Leducchi (32): 2 ♂, 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, 4 ♀, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 ♂, 3 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashcheva; 1 ♂, 4 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashcheva; 2 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashcheva; 5 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashcheva; 1 ♂, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashcheva; 2 ♂, 10 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashcheva; 1 ♀, 6 juv., bottomland

meadow, 12.VII.2017, leg. Ya.A. Chuvashева; 3 ♂, 9 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♂, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, 1 ♀, agrocoenosis, 17.VI.2009, leg. A.N. Sozontov; 2 ♀, *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♂, *Pinus* forest, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovskiy (36): 1 ♀, 2 subadult ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 2 ♂, 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♂, bog, 2.VIII.2014, leg. A.N. Sozontov; 1 ♂, 2 juv., dark coniferous forest with *Tilia*, 9.VII.2015, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 9.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 subadult ♂, 3 juv., dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (20 %), III – Floodplain meadows (13 %), IV – Floodplain mesophytic meadows (12 %), II – Ecotones (12 %), II – Meadowlands (11 %).

Associated species. Quantitative: *Evarcha arcuata* (0.35), *Mangora acalypha* (0.28), *Xysticus ulmi* (0.27), *Tibellus oblongus* (0.27), *Tetragnatha extensa* (0.26). **Qualitative:** *Evarcha arcuata* (0.41), *Tibellus oblongus* (0.40), *Misumena vatia* (0.38), *Neottiura bimaculata* (0.37), *Tetragnatha extensa* (0.36).

Stratum: herb, shrub.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

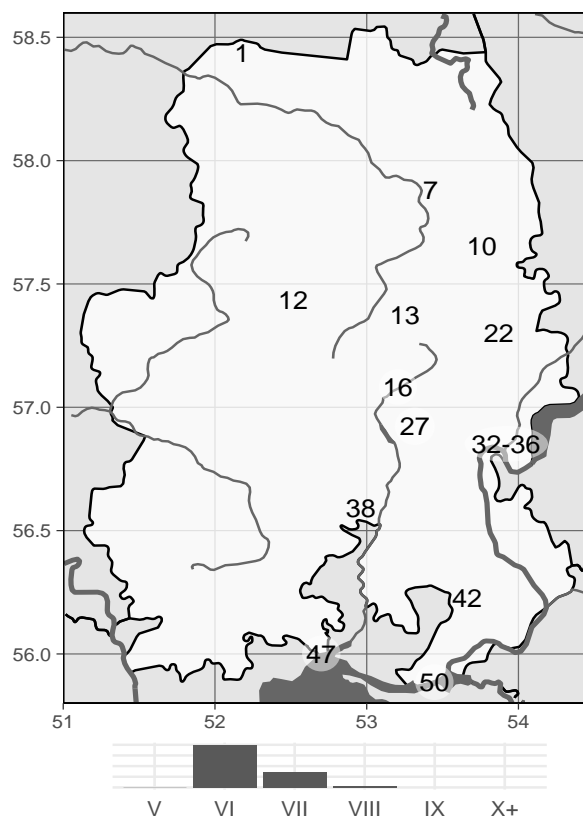


Fig. 267. Distribution map and phenology of *T. pinicola*

***Tetragnatha shoshone* Levi, 1981**

Material (Fig. 268): Karakulino Distr.: Shignanda (50): 2 ♂, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♂, open river bank, 8.VII.2011, leg. A.N. Sozontov; 5 ♂, 2 ♀, open river bank, 3.VIII.2012, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Subboreal.

***Tetragnatha striata* L. Koch, 1862**

Material (Fig. 269): Karakulino Distr.: Shignanda (50): 2 ♂, 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, open river bank, 8.VII.2011, leg. A.N. Sozontov; 4 ♀,

open river bank, 3.VIII.2012, leg. A.N. Sozontov; Malyashi (53): 3 ♂, 3 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov.

Stratum: herb, shrub.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

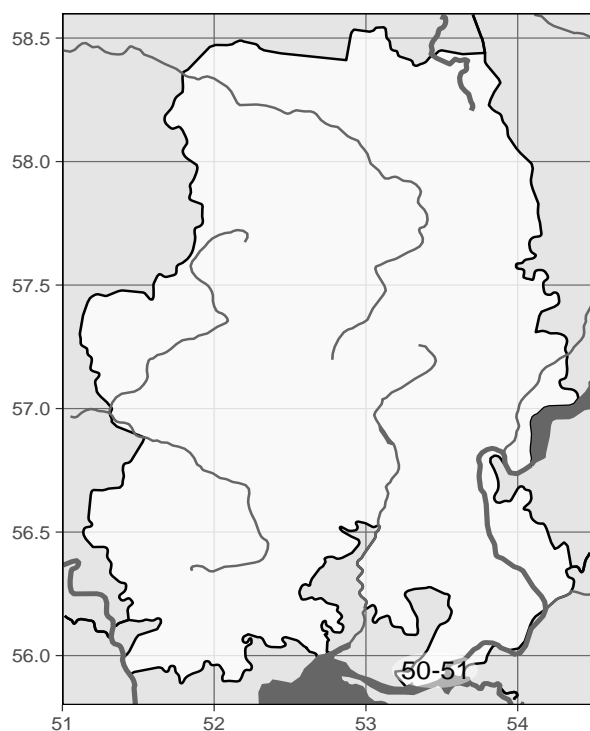


Fig. 268. Distribution map of *T. shoshone*

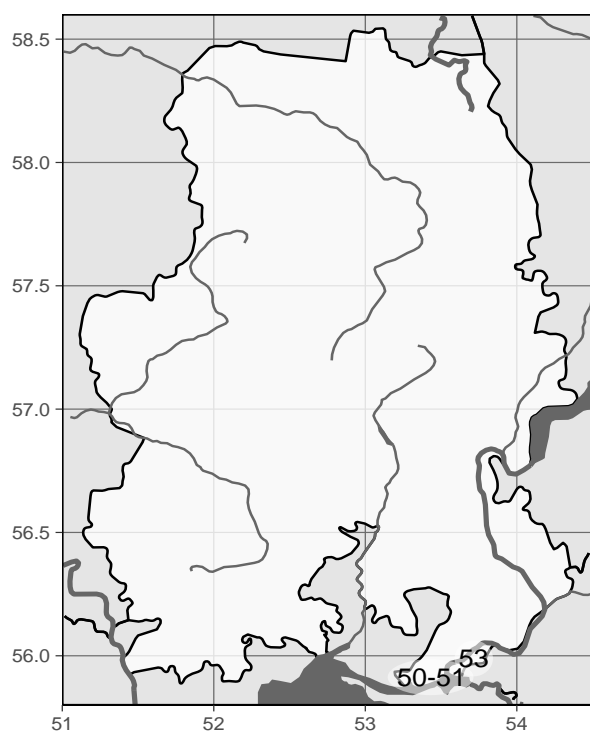


Fig. 269. Distribution map of *T. striata*

3.23. THERIDIIDAE

Asagena phalerata (Panzer, 1801)

Material (Fig. 270): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♂, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 6 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 2 ♀, upland meadow, 29.VI.2012, leg. E.S. Shirobokova; 1 ♀, upland meadow, 29.VII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 3 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 2 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 2 ♂, upland meadow, 26.VI.2017, leg. K.S. Tatarkin.

Biotopic preferences: IV – Upland meadows (20 %), III – Dry meadows (13 %), II – Meadowlands (11 %), I – All the habitats (6 %), IV – Edges of coniferous forests (3 %).

Associated species. Quantitative: *Ozyptila claveata* (0.30), *Haplodrassus signifer* (0.29), *Pachygnatha clercki* (0.26), *Talavera aequipes* (0.24), *Oedothorax gibbosus* (0.22). **Qualitative:** *Arctosa figurata* (0.43), *Haplodrassus pseudosignifer* (0.37), *Ozyptila claveata* (0.36), *Haplodrassus signifer* (0.30), *Thanatus arenarius* (0.30).

Stratum: ground.

Range: Palaearctic (Trans-Palaearctic) Polyzoal.

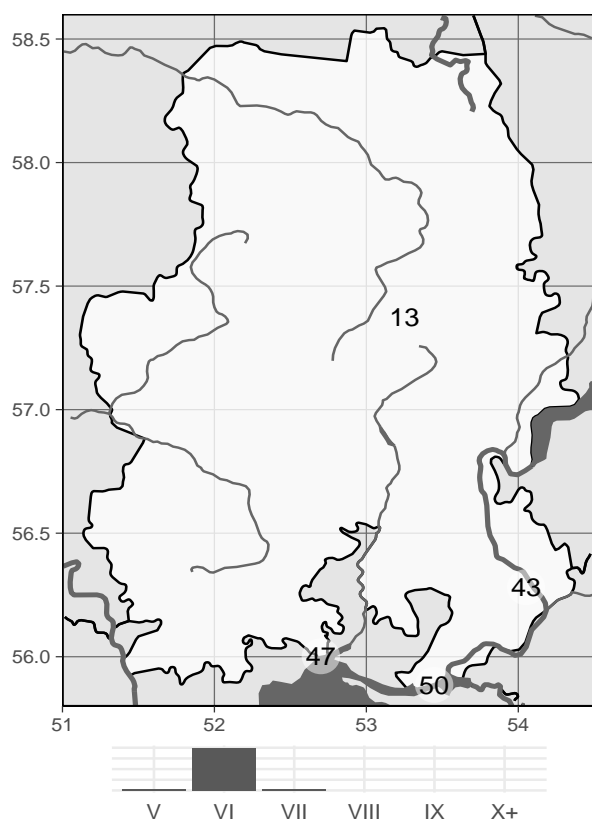


Fig. 270. Distribution map and phenology of *A. phalerata*

***Crustulina guttata* (Wider, 1834)**

Material (Fig. 271): Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, edge of coniferous forest, 4.VI.2015, leg. A.N. Sozontov; Chutyr (13): 3 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 5 ♂, 21 ♀, riverain deciduous forest, 14.VI.2012, leg. A.N. Sozontov; 2 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, 6 ♀, faunistic record, 4.VIII.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain *Quercus* forest,

6.VII.2016, leg. S.V. Dedyukhin; 1 ♂, 1 ♀, floodplain *Quercus* forest, 7.VII.2016, leg. A.V. Uskova; 1 ♀, *Quercus-Populus* forest, 7.VII.2016, leg. S.V. Dedyukhin; 1 ♀, *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Noviy (35): 1 ♂, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova.

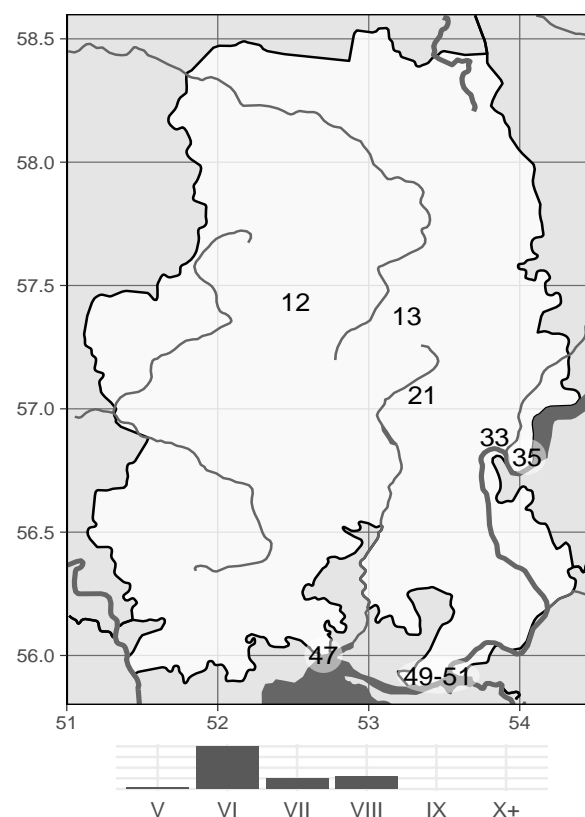


Fig. 271. Distribution map and phenology of *C. guttata*

Biotopic preferences: III – Floodplain deciduous forests (14 %), IV – Floodplain broadleaved forests (13 %), II – Woodlands (8 %), I – All the habitats (6 %), IV – *Abies-Picea* forests (5 %).

Associated species. Quantitative: *Panamomops mengei* (0.21), *Microneta viaria* (0.19), *Maso sundevalli* (0.14), *Attulus saltator* (0.10), *Cercidia prominens* (0.10). **Qualitative:** *Panamomops mengei*

(0.31), *Microneta viaria* (0.29), *Maso sundevalli* (0.25), *Hahnia ononidum* (0.23), *Abacoproeces saltuum* (0.21).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Crustulina sticta (O. Pickard-Cambridge, 1861)

Material (Fig. 272): Karakulino Distr.: Byrgynda (**49**): 1 ♂, agrocoenosis, 27.VI.2017, leg. A.N. Izhboldina; Ust'-Belsk (**51**): 1 ♂, faunistic record, 10.VII.2011, leg. A.N. Sozontov.

Stratum: litter.

Range: Holarctic (Circum-Holarctic) Temperate.

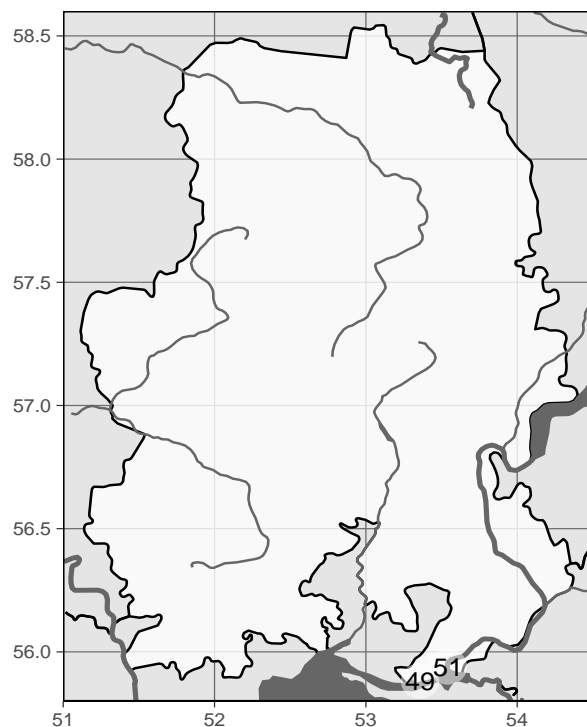


Fig. 272. Distribution map of *C. sticta*

Cryptachaea riparia (Blackwall, 1834)

Material (Fig. 273): Kez Distr.: Cheptsá (**7**): 1 ♀, faunistic record, 16.VII.2008, leg. A.V. Ilyina; Votkinsk Distr.: Noviy (**35**): 1 ♀, dark coniferous forest with *Tilia*, 16.VI.2009, leg. A.N. Sozontov.

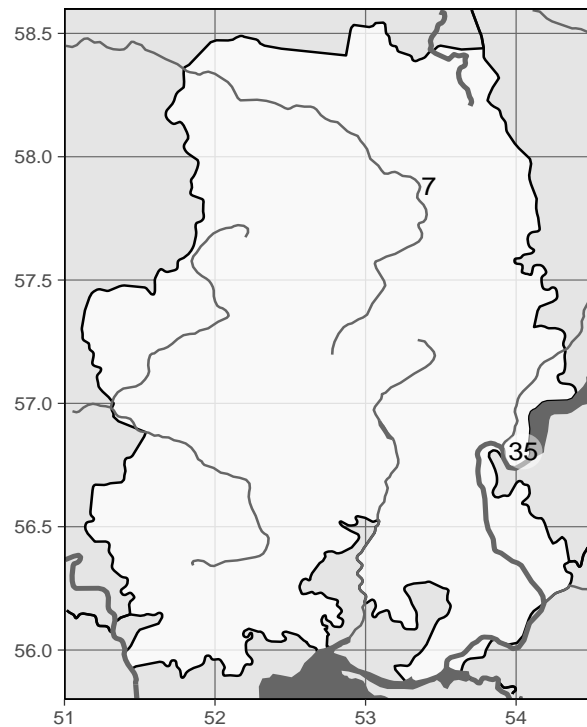


Fig. 273. Distribution map of *C. riparia*

Stratum: tree stems, synanthrope (outside buildings).

Range: Palaearctic (Trans-Palaearctic) Subboreal.

Diploena torva (Thorell, 1875)

Material: Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (**33**): 1 ♂, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov.

Stratum: canopy.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

Enoplognatha ovata (Clerck, 1757)

Material (Fig. 274): Alnashy Distr.: Staryi Utchan (**45**): 1 ♀, bog, 7.VII.2009, leg. A.N. Sozontov; Pirogovo (**46**): 2 ♀, open lake shore, 10.VII.2009, leg. A.N. Sozontov; Golushurma (**47**): 2 ♀, 2 juv., riverain deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 4 ♂, 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (**13**): 3 subadult ♂, *Abies-Picea* forest, 14.VI.2011, leg.

E.S. Shirobokova; 3 subadult ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 1 juv., edge of mixed forest, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 2.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 16.VII.2011, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, edge of coniferous forest, 8.VII.2014, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, open lake shore, 8.VII.2011, leg. A.N. Sozontov; 1 ♀, 3 juv., open river bank, 8.VII.2011, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 13.VI.2012, leg. A.N. Sozontov; Malyashi (53): 4 subadult ♂, 1 juv., riverain deciduous forest, 11.VI.2011, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; 2 ♂, 4 ♀, *Abies-Picea* forest, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 juv., faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; Noviy (35): 2 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (15): 1 ♀, agrocoenosis, 28.VIII.2009, leg. A.N. Sozontov; Selychka (16): 2 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♀, faunistic record, 1.VII.2017, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♂, faunistic record, 8.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov

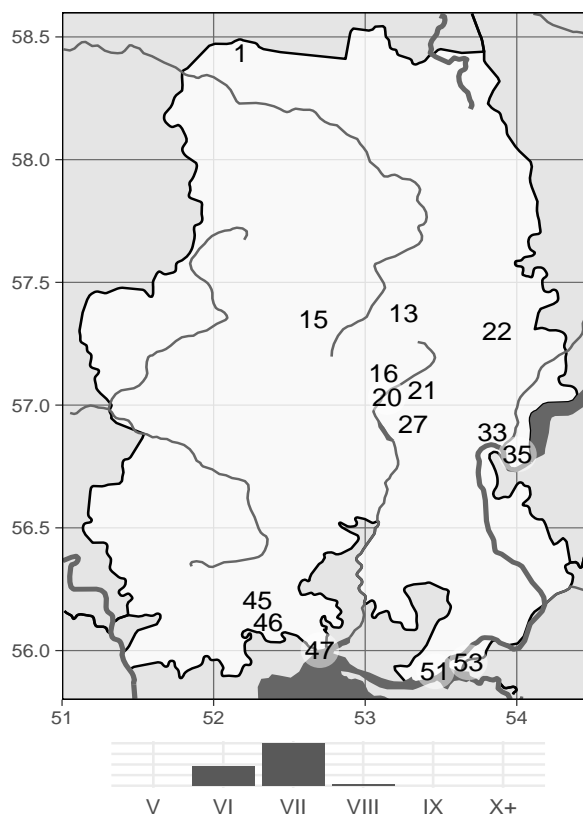


Fig. 274. Distribution map and phenology of *E. ovata*

Biotope preferences: IV – *Abies-Picea* forests (22 %), I – All the habitats (10 %), IV – Edges of mixed forests (9 %), II – Wetlands (7 %), III – Watersides (4 %).

Associated species. Quantitative: *Nerienne radiata* (0.14), *Linyphia triangularis* (0.13), *Nerienne emphana* (0.13), *Tibellus oblongus* (0.12), *Tetragnatha dearmata* (0.12). **Qualitative:** *Tibellus oblongus* (0.21), *Dolomedes plantarius* (0.20), *Cheiracanthium erraticum* (0.16), *Tetragnatha pinicola* (0.16), *Nerienne emphana* (0.16).

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Polyzonal.

Episinus angulatus (Blackwall, 1836)

Material (Fig. 275): Alnashy Distr.: Golushurma (47): 1 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Karakulino Distr.: Malyashi (53): 1 ♀, floodplain

meadow, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (**44**): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 2 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova.

Stratum: shrub.

Range: AncientMediterranean (European-CentralAsian) Subboreal.

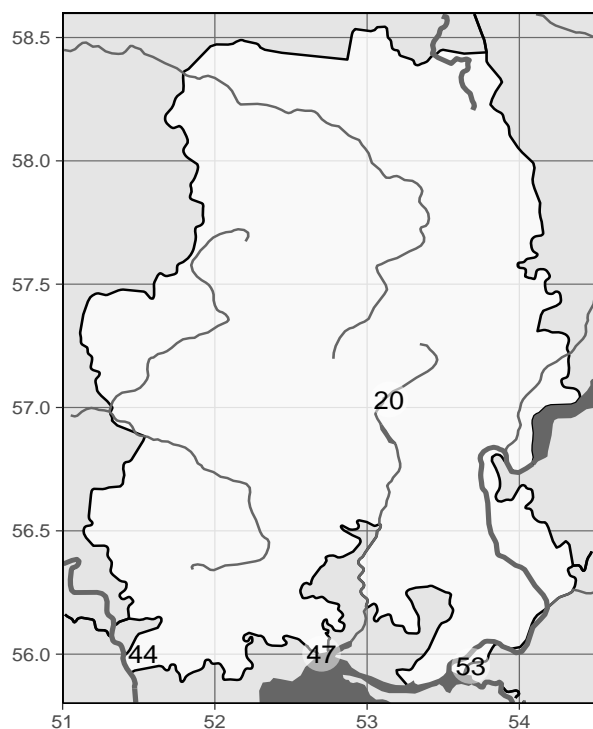


Fig. 275. Distribution map of *E. angulatus*

Episinus truncatus Latreille, 1809

Material (Fig. 276): Igra Distr.: Chutyra (**13**): 1 ♀, edge of mixed forest, 14.VI.2012, leg. E.S. Shirobokova; Izhevsk (**24**): 1 ♀, agrocoenosis, 15.VII.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Shignanda (**50**): 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (**51**): 1 ♀, *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsra (**7**): 2 ♀, watershed mixed forest, 13.VII.2008, leg. A.V. Ilyina; Yakshur-Bodya Distr.: SNT 'Sirius' (**20**): 1 ♀, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (**27**): 1 ♀, *Tilia* forest,

24.VI.2013, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov.

Associated species. Qualitative: *Agyneta olivacea* (0.36), *Bathyphantes gracilis* (0.35), *Bathyphantes nigrinus* (0.21), *Gongylidium rufipes* (0.21), *Ozyptila trux* (0.19).

Stratum: shrub.

Range: Palaearctic (West-Palaearctic) Subboreal.

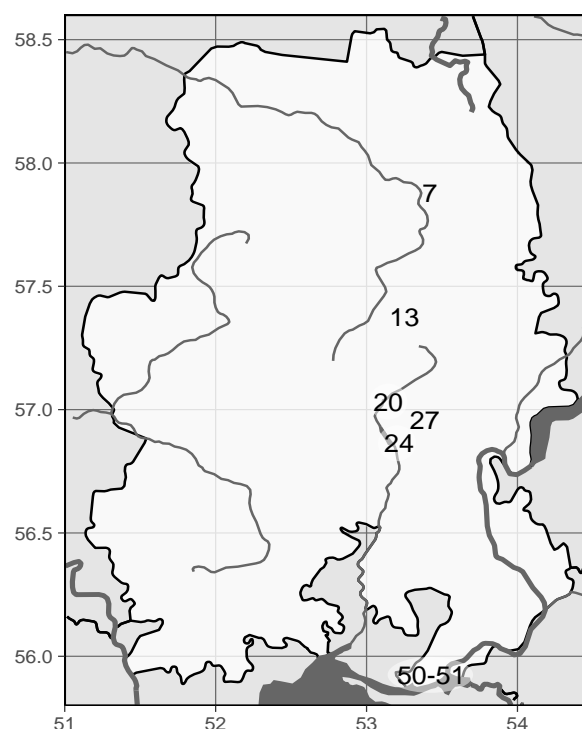


Fig. 276. Distribution map of *E. truncatus*

Euryopis flavomaculata (C.L. Koch, 1836)

Material (Fig. 277): Alnashy Distr.: Golushurma (**47**): 2 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 10 ♂, 4 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 3 ♂, 1 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; Igra Distr.: Chutyra (**13**): 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (**49**): 2 ♂, 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (**50**): 4 ♂, 4 ♀, riverain deciduous forest, 16.VI.2012,

leg. A.N. Sozontov; Ust'-Belsk (51): 2 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, faunistic record, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 2 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 4 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 2 ♂, floodplain *Quercus* forest, 31.V.2016, leg. A.V. Uskova; Noviy (35): 1 ♂, *Tilia* forest, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 6 ♂, 2 ♀, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 4.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 24.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♀, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov.

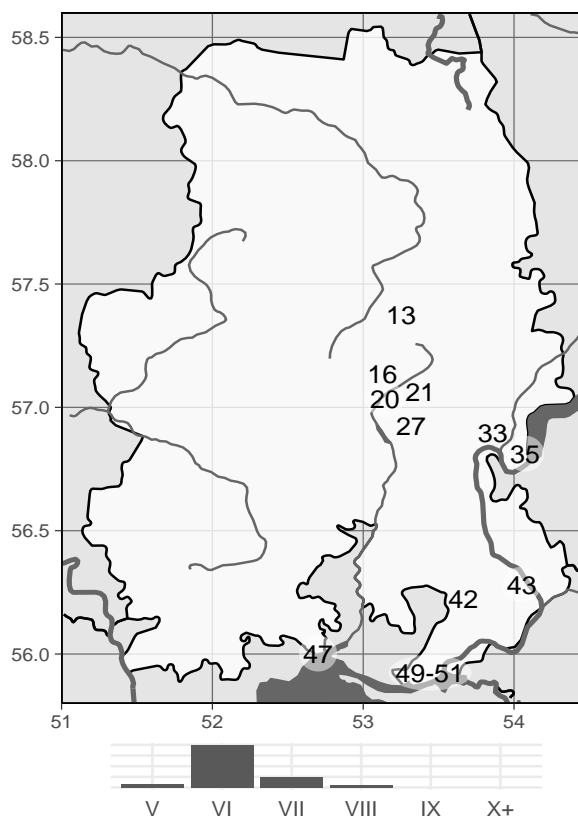


Fig. 277. Distribution map and phenology of *E. flavomaculata*

Biotope preferences: II – Woodlands (21 %), IV – Floodplain broadleaved forests (21 %), I – All the habitats (15 %), III – Floodplain deciduous forests (12 %), III – Upland coniferous forests (9 %).

Associated species. Quantitative: *Xysticus luctator* (0.29), *Diplocephalus picinus* (0.25), *Walckenaeria atrotibialis* (0.25), *Abacoproeces saltuum* (0.24), *Zora nemoralis* (0.22). **Qualitative:** *Zelotes subterraneus* (0.39), *Ozyptila trux* (0.39), *Agyneta subtilis* (0.37), *Zora nemoralis* (0.36), *Haplodrassus soerenseni* (0.35).

Stratum: litter.

Range: Palaearctic (Trans-Palaearctic) Temperate.

Euryopsis saukea Levi, 1951

Material: Alnashy Distr.: Golushurma (47): 2 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe

meadow, 4.VI.2013, leg. A.N. Sozontov; 2 ♂, upland meadow, 3.VI.2015, leg. A.N. Sozontov.

Stratum: ground, litter.

Range: Holarctic (Circum-Holarctic) Subboreal.

Lasaeola prona (Menge, 1868)

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova.

Stratum: ground, herb.

Range: Holarctic (Nearctic-West Siberian) Subboreal.

Lasaeola tristis (Hahn, 1833)

Material (Fig. 278): Igra Distr.: Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 24.VII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 juv., faunistic record, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: Volkovskiy (36): 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov.

Associated species. Qualitative: *Hypsosinga sanguinea* (0.36), *Phylloneta sisypchia* (0.32), *Cyclosa oculata* (0.25), *Episinus angulatus* (0.22), *Heliophanus cupreus* (0.22).

Stratum: canopy.

Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Neottiura bimaculata (Linnaeus, 1767)

Material (Fig. 279): Alnashy Distr.: Golushurma (47): 1 juv., sloping steppe meadow, 24.V.2013, leg. A.N. Sozontov; 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr

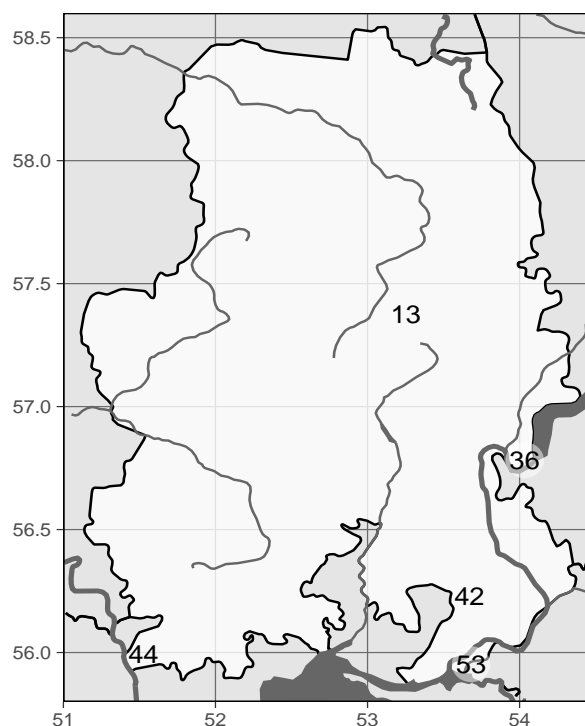


Fig. 278. Distribution map of *L. tristis*

(13): 1 subadult ♂, *Abies-Picea* forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, edge of mixed forest, 25.VI.2011, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 27.VIII.2012, leg. E.S. Shirobokova; 2 juv., edge of mixed forest, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 ♂, faunistic record, 7.VII.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 subadult ♂, open river bank, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; 1 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Bima (42): 1 subadult ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 4 ♀, edge of deciduous forest, 27.VI.2014,

leg. A.V. Uskova; 2 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 1 juv., bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashova; 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashova; 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashova; Siva's delta (34): 2 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; Noviy (35): 1 ♂, sloping steppe meadow, 19.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 subadult ♂, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 juv., floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, edge of deciduous forest, 31.VII.2014, leg. A.N. Sozontov.

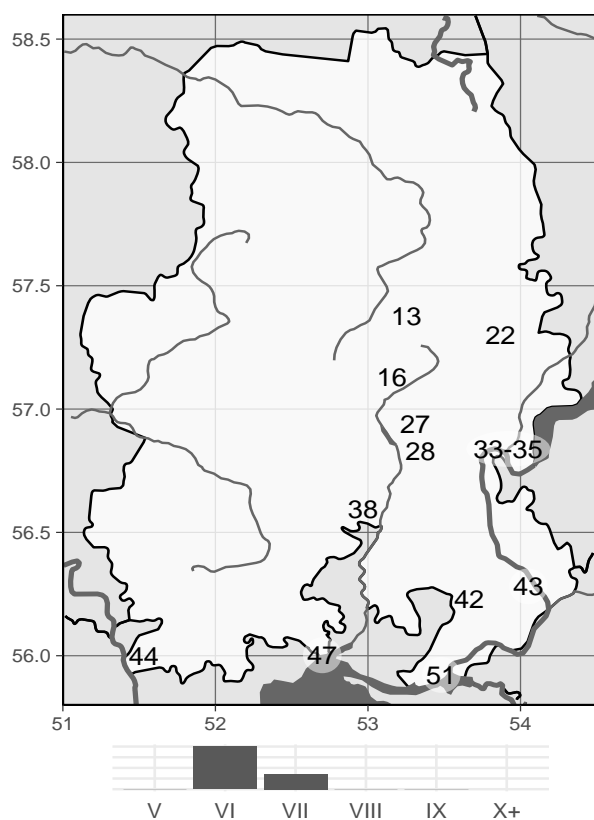


Fig. 279. Distribution map and phenology of *N. bimaculata*

Biotope preferences: IV – Edges of mixed forests (28 %), II – Ecotones (17 %), III – Forest edges (11 %), I – All the habitats (10 %), IV – Edges of broadleaved forests (8 %).

Associated species. Quantitative: *Tibellus oblongus* (0.21), *Tetragnatha pinicola* (0.20), *Micrommata virescens* (0.18), *Ballus chalybeius* (0.17), *Cheiracanthium erraticum* (0.16). **Qualitative:** *Tetragnatha pinicola* (0.37), *Tibellus oblongus* (0.31), *Dictyna arundinacea* (0.31), *Mangora acalypha* (0.27), *Xysticus ulmi* (0.25).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Temperate.

Parasteatoda lunata (Clerck, 1757)

Material (Fig. 280): Alnashy Distr.: Golushurma (47): 1 ♂, 3 ♀, riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Izhevsk (24): 1 ♂, anthropogenic habitat, 15.VI.2013, leg. A.N. Sozontov; 2 ♂, heated dwellings, 5.VII.2013, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov.

Stratum: shrub, canopy.

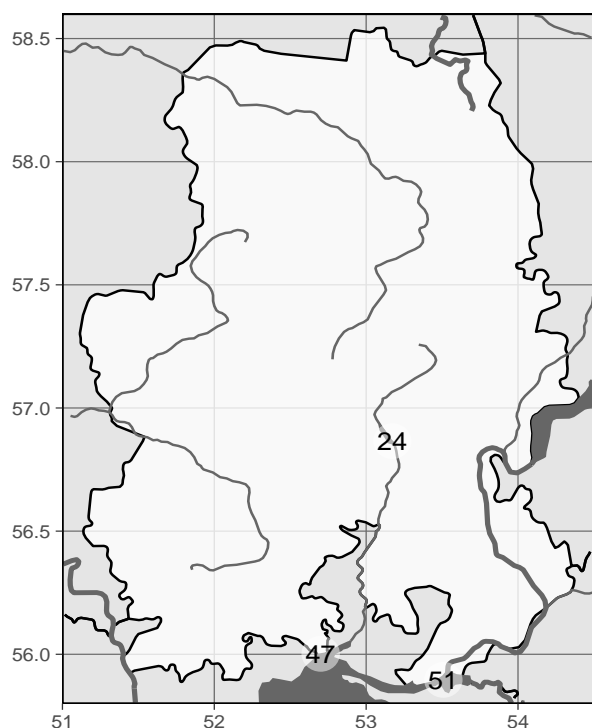
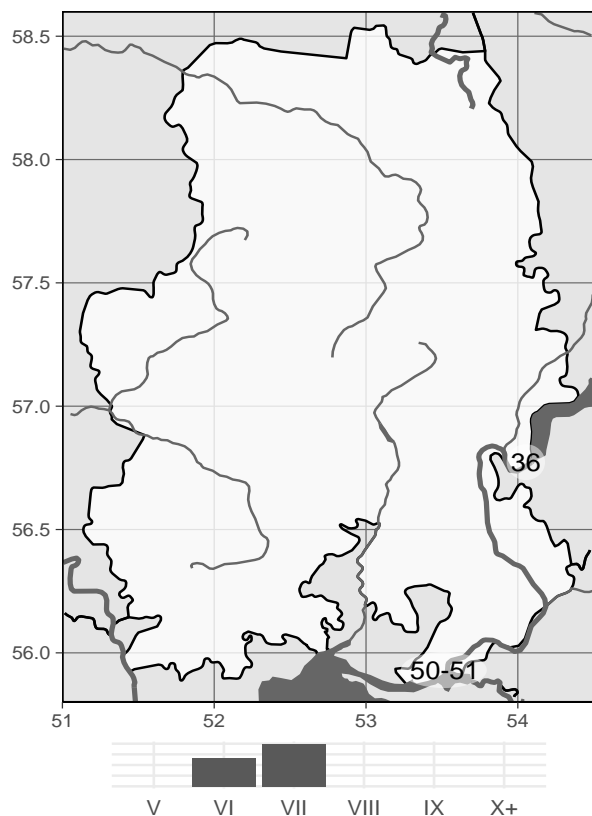
Range: Palaearctic (Trans-Palaearctic) Subboreal.

Parasteatoda simulans (Thorell, 1875)

Material (Fig. 281): Karakulino Distr.: Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 3 ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; Votkinsk Distr.: Volkovskiy (36): 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov.

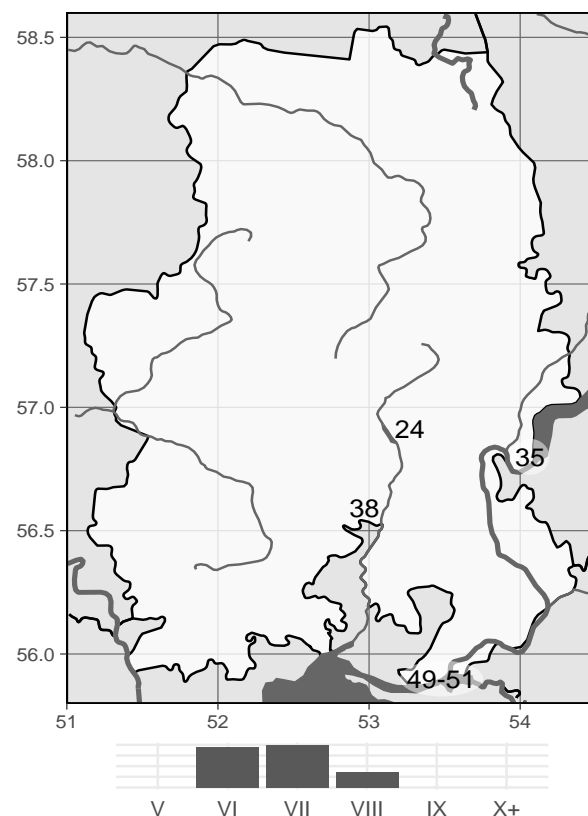
Stratum: tree stems.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

Fig. 280. Distribution map of *P. lunata*Fig. 281. Distribution map of *P. simulans**Parasteatoda tabulata* (Levi, 1980)

Material (Fig. 282): Izhevsk (24): 4 ♀, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda

(49): 4 ♀, 1 subadult ♂, 3 juv., unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; 1 ♂, 3 ♀, unheated indoor spaces, 27.VI.2017, leg. A.N. Izhboldina; 3 ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izhboldina; 3 ♀, unheated indoor spaces, 27.VII.2017, leg. A.N. Izhboldina; 4 ♀, unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 2 ♂, 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 2 ♂, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Votkinsk Distr.: Noviy (35): 1 ♂, 1 ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov; 3 ♀, open river bank, 2.VII.2010, leg. A.N. Sozontov; 1 ♂, 3 ♀, open river bank, 10.VII.2012, leg. S.V. Dedyukhin; 1 ♂, steppified meadow, 30.VI.2017, leg. A.N. Sozontov.

Fig. 282. Distribution map and phenology of *P. tabulata*

Biotope preferences: III – Indoor spaces (73 %), IV – Unheated spaces (70 %), II – Anthropogenic habitats (49 %), III – Agrophytocenoses (6 %), IV – Agrophytocenoses (6 %).

Associated species. Quantitative: *Neriere montana* (0.38), *Steatoda bipunctata* (0.31), *Larinioides ixobolus* (0.29), *Theridion varians* (0.28), *Tetragnatha dearmata* (0.22). **Qualitative:** *Neriere montana* (0.47), *Leviellus stroemi* (0.42), *Larinioides ixobolus* (0.40), *Steatoda bipunctata* (0.36), *Steatoda castanea* (0.28).

Stratum: synanthrope (outside buildings, inside buildings, underground utilities).

Range: Cosmopolitan (Cosmopolitan) Synanthropic.

***Phylloneta impressa* (L. Koch, 1881)**

Material (Fig. 283): Alnashy Distr.: Golushurma (47): 2 ♂, 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 4 ♂, 1 ♀, 2 juv., edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 2.VII.2011, leg. E.S. Shirobokova; 8 juv., upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 7 ♂, 4 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 3 ♂, 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, 4 ♀, faunistic record, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 9.VII.2011, leg. S.V. Dedyukhin; Cheganda (52): 1 ♂, 1 ♀, anthropogenic habitat, 16.VI.2012, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov;

Kez Distr.: Cheptsa (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kizner Distr.: Krymskaya Sludka (44): 1 ♂, faunistic record, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; 1 ♀, upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Sokolovka (43): 4 ♀, edge of coniferous forest, 29.VII.2012, M.N. Zagumenov; 1 ♂, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; 2 ♀, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Leducchi (32): 3 ♂, 5 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 1 ♀, edge of deciduous forest, 27.VI.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 8 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 2 ♀, watershed mixed forest, 14.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 5 ♀, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashheva; 1 ♂, 1 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashheva; 1 ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvashheva; Siva's delta (34): 8 ♂, 4 ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 2 ♂, 4 ♀, *Pinus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 2 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; 2 ♀, *Pinus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova; 3 ♀, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy

(35): 1 ♂, 2 juv., sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 2 ♂, 1 ♀, sloping steppe meadow, 18.VI.2009, leg. A.N. Sozontov; 1 ♂, 6 ♀, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, faunistic record, 29.VI.2014, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♀, faunistic record, 1.VII.2017, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, bottomland meadow, 31.VII.2014, leg. A.N. Sozontov; Doksha (29): 1 ♂, open river bank, 20.VI.2008, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (18 %), II – Ecotones (8 %), II – Meadowlands (7 %), III – Upland mixed forests (6 %), II – Anthropogenic habitats (5 %).

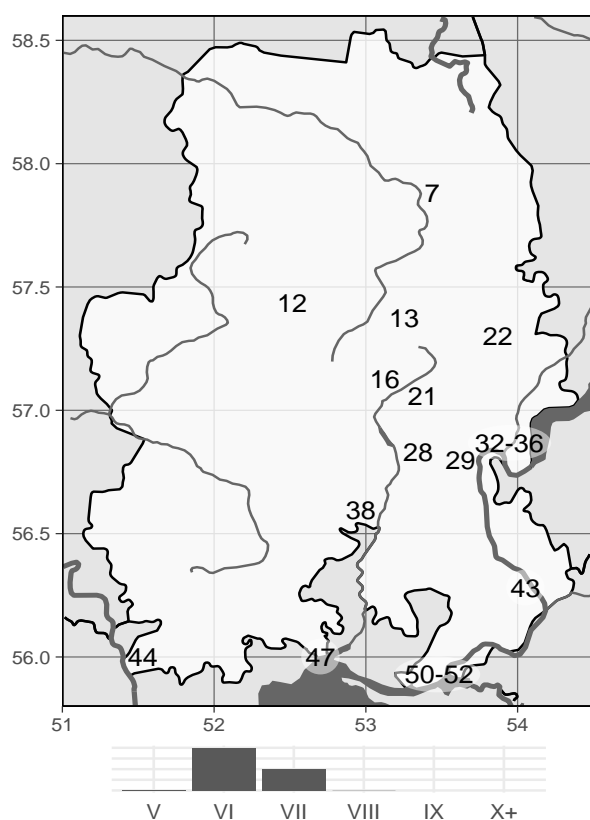


Fig. 283. Distribution map and phenology of *Ph. impressa*

Associated species. Quantitative: *Philodromus cespitum* (0.32), *Tibellus oblongus* (0.26), *Cheiracanthium erraticum* (0.23), *Micrommata virescens* (0.20), *Evarcha arcuata* (0.20). **Qualitative:** *Dictyna arundinacea* (0.45), *Philodromus cespitum* (0.43), *Tibellus oblongus* (0.40), *Evarcha arcuata* (0.39), *Cheiracanthium erraticum* (0.39).

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Polyzonal.

Phylloneta sisypbia (Clerck, 1757)

Material (Fig. 284): Igra Distr.: Chutyr (13): 1 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; Kez Distr.: Cheptsa (7): 1 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 1 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Kiyasovo Distr.: Baisary (48): 1 ♀, faunistic record, 29.VI.2015, L.P. Pyatak; Kizner Distr.: Krymskaya Sludka (44): 1 ♂, faunistic record, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 2 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♂, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 2 ♀, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 ♀, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 ♂, 1 juv., open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, 1 juv., *Pinus* forest, 18.VI.2009, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 ♀, bog, 2.VIII.2014, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov.

Biotope preferences: III – Bogs (22 %), IV – Open raised bogs (11 %), I – All the habitats (6 %), II – Wetlands (4 %), IV – *Pinus* forests (4 %).

Associated species. Quantitative: *Lasaeola tristis* (0.26), *Hypsosinga sanguinea* (0.24), *Tetragnatha obtusa* (0.20), *Araneus angulatus* (0.17), *Pityohyphantes phrygianus* (0.17). **Qualitative:** *Lasaeola tristis* (0.32), *Tetragnatha obtusa* (0.24), *Mangora acalypha* (0.23), *Araneus angulatus* (0.22), *Pityohyphantes phrygianus* (0.22).

Stratum: herb, shrub.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

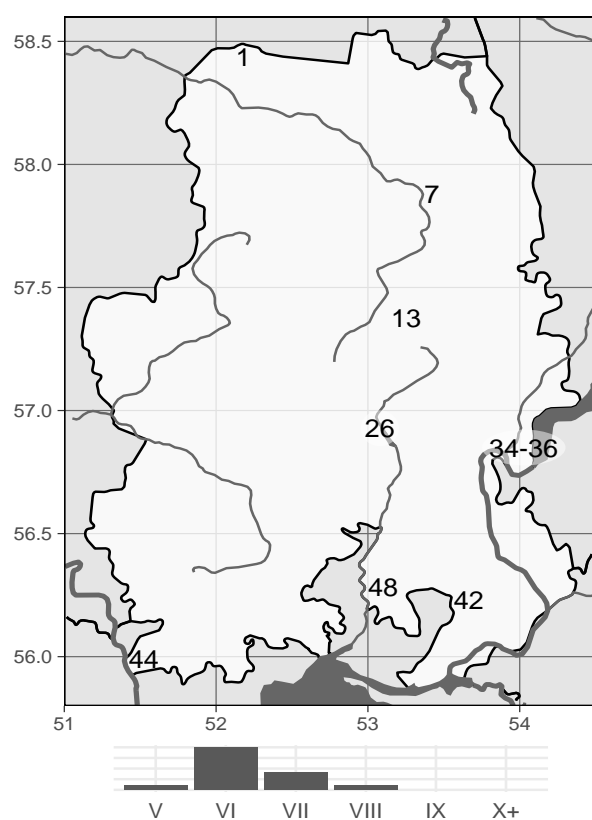


Fig. 284. Distribution map and phenology of *Ph. sisypia*

Platnickina tinctoria (Walckenaer, 1802)

Material: Igra Distr.: Chutyr (13): 1 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 1 juv., dark coniferous forest with *Tilia*, 12.VIII.2012, leg. E.S. Shirobokova.

Stratum: herb, shrub, canopy.

Range: Holarctic (EastNearctic-WestPalaearctic) Temperate.

Robertus arundineti (O. Pickard-Cambridge, 1871)

Material (Fig. 285): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, sloping steppe meadow, 24.V.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, unheated indoor spaces, 28.IX.2012, leg. E.S. Shirobokova; Karakulino Distr.: Shignanda (50): 1 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashcheva; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♂, watershed coniferous forest, 1.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 1 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♂, 1 ♀, bottomland meadow, 3.VII.2014, leg. A.N. Sozontov; 1 ♂, bottomland meadow, 23.VII.2014, leg. A.N. Sozontov.

Biotope preferences: III – Indoor spaces (14 %), IV – Unheated spaces (8 %), I – All the habitats (6 %), IV – *Abies-Picea* forests (5 %), IV – Floodplain mesophytic meadows (4 %).

Associated species. Quantitative: *Ero furcata* (0.24), *Hahnina nava* (0.22), *Pelecopsis menzei* (0.19), *Agyneta saaristoi* (0.15), *Haplodrassus cognatus* (0.15). **Qualitative:** *Agyneta affinis* (0.29), *Hahnina nava* (0.27), *Pelecopsis menzei* (0.24), *Pachygnatha listeri* (0.22), *Microneta viaria* (0.21).

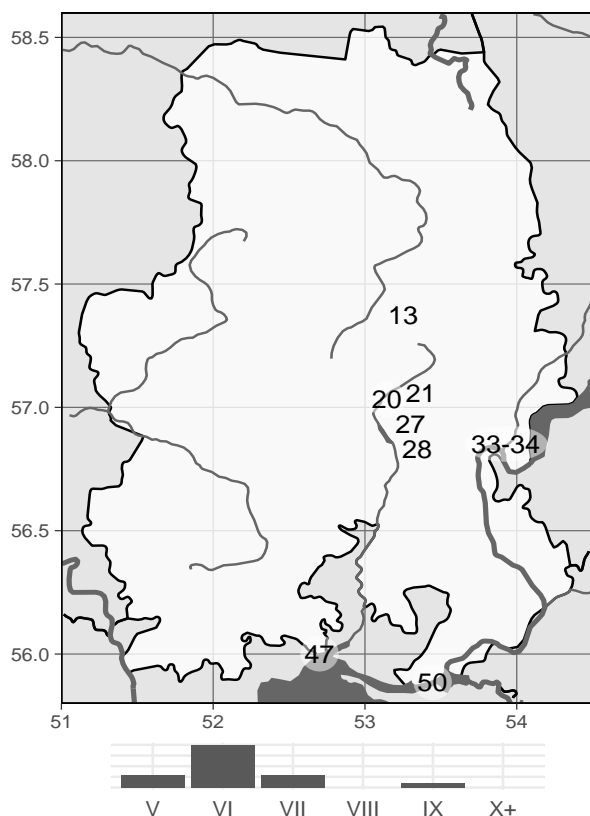


Fig. 285. Distribution map and phenology of *R. arundineti*

Stratum: litter.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Robertus lividus (Blackwall, 1836)

Material (Fig. 286): Alnashy Distr.: Golushurma (47): 1 ♂, 1 ♀, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsa (7): 3 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sharkan Distr.: Sharkan (22): 1 ♂, watershed coniferous forest, 28.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 2 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, 2 ♀, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 24.VIII.2014, leg. A.N.

Sozontov; 16-km Yakshur Bodyinskiy trakt (19): 1 ♀, dark coniferous forest with *Tilia*, 6.X.2009, leg. A.N. Sozontov; SNT 'Sirius' (20): 2 ♂, *Pinus* forest, 1.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 24.V.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 6.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 3 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 5 ♂, 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (30 %), IV – *Tilia* forests

(24 %), II – Woodlands (17 %), I – All the habitats (15 %), III – Upland coniferous forests (7 %).

Associated species. Quantitative: *Zora nemoralis* (0.32), *Diplocephalus latifrons* (0.29), *Minyriolus pusillus* (0.28), *Centromerus arcanus* (0.25), *Agroeca brunnea* (0.24). **Qualitative:** *Zora nemoralis* (0.47), *Minyriolus pusillus* (0.41), *Tenuiphantes tenebricola* (0.39), *Zelotes subterraneus* (0.39), *Zelotes clivicola* (0.39).

Stratum: litter.

Range: Holarctic (TransPalaeartic-WestNearctic) Temperate.

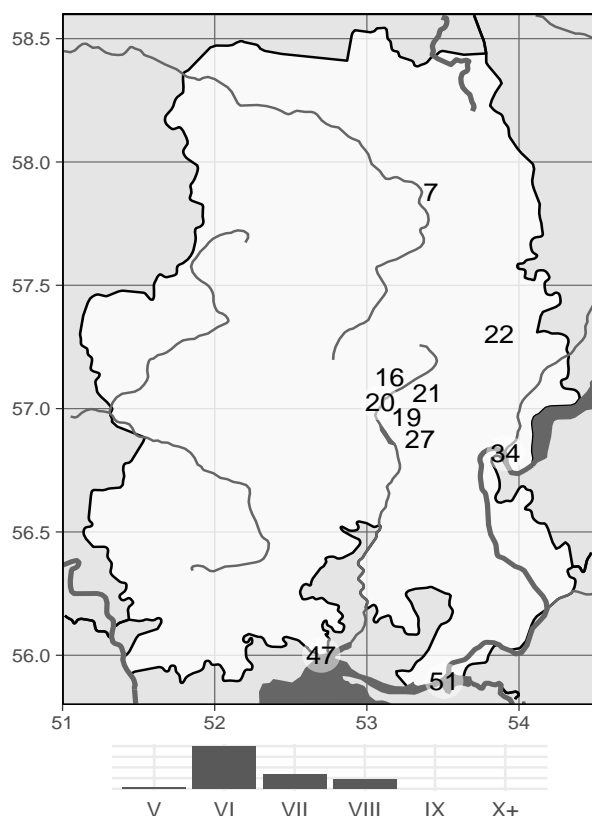


Fig. 286. Distribution map and phenology of *R. lividus*

Robertus neglectus (O. Pickard-Cambridge, 1871)

Material (Fig. 287): Sarapul Distr.: Sokolovka (43): 2 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; Yarskiy Distr.: Perelom (1): 1 ♂, faunistic

record, 25.VII.2012, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 1 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov.

Stratum: litter, moss.

Range: Holarctic (Greenland-WestSiberian) Temperate.

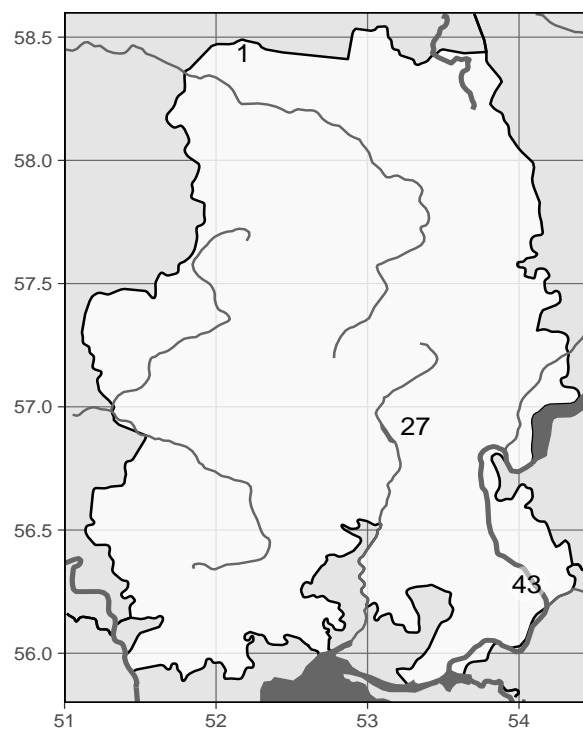


Fig. 287. Distribution map of *R. neglectus*

Robertus scoticus Jackson, 1914

Material: Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 5.VII.2017, leg. S.A. Shirobokova.

Stratum: litter.

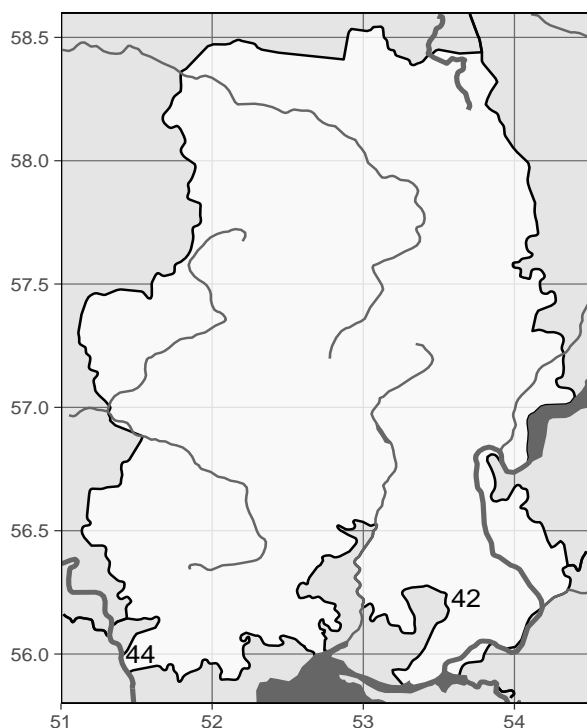
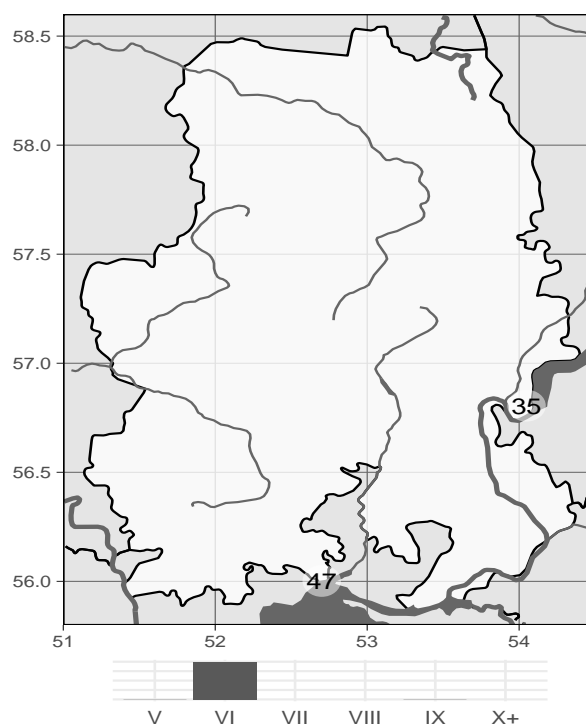
Range: Euro-Siberian (European-MiddleSiberian) Temperate.

Simitidion simile (C. L. Koch, 1836)

Material (Fig. 288): Kizner Distr.: Krymskaya Sludka (44): 2 ♂, 1 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov.

Stratum: herb.

Range: Holarctic (EastNearctic-WestPalaeartic) Subboreal-subarid.

Fig. 288. Distribution map of *S. simile*Fig. 289. Distribution map of *S. albomaculata****Steatoda albomaculata* (De Geer, 1778)**

Material (Fig. 289): Alnashy Distr.: Golushurma (47): 1 subadult ♂, 1 subadult ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 3 subadult ♂, 2 subadult ♀, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; Votkinsk Distr.: Noviy (35): 1 ♂, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov.

Stratum: ground.

Range: Holarctic (Circum-Holarctic) Polyzonal.

***Steatoda bipunctata* (Linnaeus, 1758)**

Material (Fig. 290): Igra Distr.: Chutyr (13): 1 ♀, *Abies-Picea* forest, 8.VII.2014, leg. A.N. Sozontov; Izhevsk (24): 1 ♀, agrocoenosis, 23.VII.2012, leg. V.I. Kapitonov; 3 ♀, *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 2 ♀, 1 subadult ♂, 1 subadult ♀, unheated indoor spaces, 5.VI.2017, leg. A.N. Izboldina; 1 ♀, 3 subadult ♀, 1 juv., unheated indoor spaces,

27.VI.2017, leg. A.N. Izboldina; 2 ♂, 6 ♀, unheated indoor spaces, 27.VII.2017, leg. A.N. Izboldina; 1 ♂, agrocoenosis, 27.VIII.2017, leg. A.N. Izboldina; 1 ♀, heated dwellings, 27.VIII.2017, leg. A.N. Izboldina; 13 ♂, 25 ♀, unheated indoor spaces, 27.VIII.2017, leg. A.N. Izboldina; Shignanda (50): 1 juv., unheated indoor spaces, 14.VI.2012, leg. A.N. Sozontov; 1 subadult ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsia (7): 2 ♂, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 6 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (38): 2 ♂, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Sharkan Distr.: Sharkan (22): 1 subadult ♀, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; Noviy (35): 1 ♂, 1 subadult ♂, 1 subadult ♀, open river bank, 2.VII.2010, leg. A.N. Sozontov;

1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (**15**): 2 ♀, Unheated indoor spaces, 9.V.2010, leg. A.N. Sozontov; 1 ♂, unheated indoor spaces, 9.VIII.2010, leg. A.N. Sozontov; 1 subadult ♂, unheated indoor spaces, 6.VI.2011, leg. A.N. Sozontov; 1 subadult ♂, Unheated indoor spaces, 25.VII.2011, leg. A.N. Sozontov; 1 ♂, unheated indoor spaces, 28.VIII.2011, leg. A.N. Sozontov; 16-km Yakshur Bodyinskiy trakt (**19**): 1 ♂, dark coniferous forest with *Tilia*, 6.X.2009, leg. A.N. Sozontov; Yukamenskoe Distr.: Yukamenskoe (**8**): 1 ♀, Unheated indoor spaces, 1.VII.2013, A.O. Apaeva.

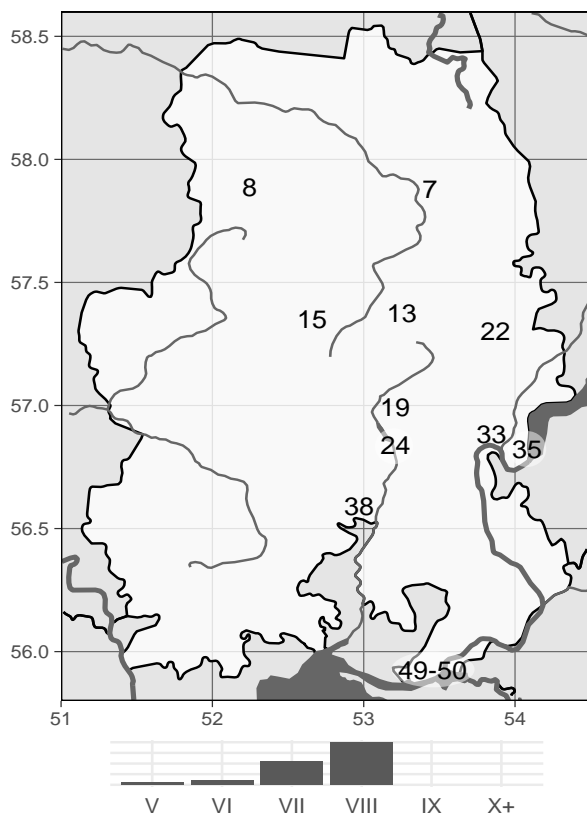


Fig. 290. Distribution map and phenology of *S. bipunctata*

Biotope preferences: III – Indoor spaces (87 %), IV – Unheated spaces (76 %), II – Anthropogenic habitats (69 %), IV – Heated spaces (9 %), I – All the habitats (8 %).

Associated species. Quantitative: *Parasteatoda tabulata* (0.31), *Nerienne montana* (0.22), *Tegenaria domestica* (0.20), *Larinioides ixobolus* (0.19), *Theridion varians* (0.16). **Qualitative:** *Parasteatoda tabulata* (0.36), *Steatoda castanea* (0.35), *Leviellus stroemi* (0.34), *Larinioides ixobolus* (0.34), *Nerienne montana* (0.30).

Stratum: tree stems, synanthrope (outside buildings).

Range: Palaearctic (Trans-Palaearctic) Temperate.

Steatoda castanea (Clerck, 1757)

Material (Fig. 291): Izhevsk (24): 1 ♀, heated dwellings, 10.IX.2009, leg. A.N. Sozontov; 1 ♀, heated dwellings, 3.VII.2012, leg. A.N. Sozontov; 2 ♀, heated dwellings, 18.IX.2012, leg. E.S. Shirobokova; 1 ♂, heated dwellings, 1.IX.2013, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (**49**): 1 ♀, unheated indoor spaces, 27.VI.2017, leg. A.N. Izhboldina; 1 ♀, 1 subadult ♂, 1 subadult ♀, 2 juv., heated dwellings, 27.VII.2017, leg. A.N. Izhboldina; 1 ♀, agrocoenosis, 27.VIII.2017, leg. A.N. Izhboldina; 1 ♀, Unheated indoor spaces, 27.VIII.2017, leg. A.N. Izhboldina; Shignanda (50): 1 subadult ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (**7**): 1 ♀, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Malaya Purga Distr.: Malaya Purga (**38**): 1 ♂, 6 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Votkinsk Distr.: Noviy (**35**): 2 ♂, agrocoenosis, 17.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Chernushka (**17**): 1 ♀, heated dwellings, 25.V.2011, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (**26**): 1 ♀, floodplain steppified meadow, 15.VI.2010, leg. A.N. Sozontov.

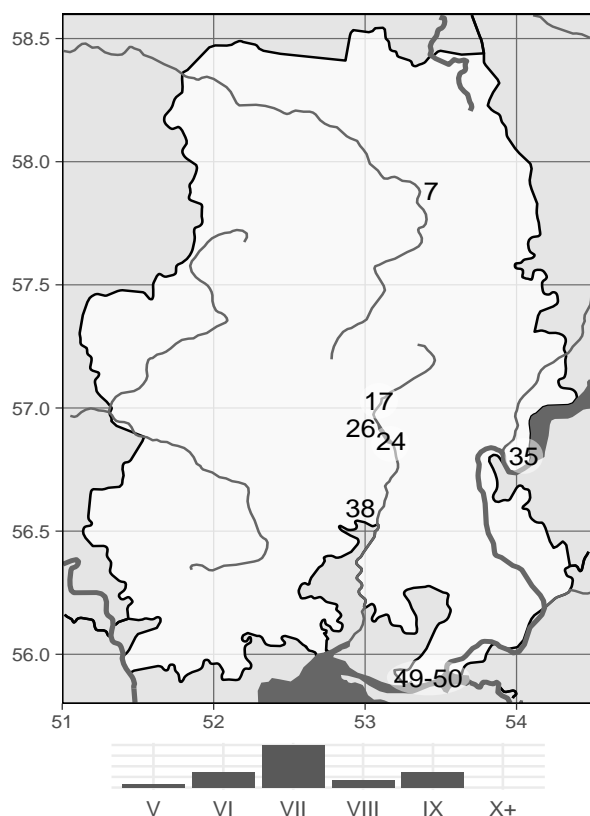


Fig. 291. Distribution map and phenology of *S. castanea*

Biotope preferences: IV – Heated spaces (79 %), III – Indoor spaces (57 %), II – Anthropogenic habitats (49 %), I – Agrophytocenoses (7 %), V – Unheated spaces (7 %).

Associated species. Quantitative: *Pardosa alacris* (0.24), *Larinioides ixobolus* (0.23), *Gnaphosa montana* (0.16), *Philodromus poecilus* (0.16), *Steatoda bipunctata* (0.14). **Qualitative:** *Steatoda bipunctata* (0.35), *Larinioides ixobolus* (0.32), *Parasteatoda tabulata* (0.28), *Gnaphosa montana* (0.26), *Leviellus stroemi* (0.24).

Stratum: synanthrope (inside buildings, underground utilities).

Range: Palaearctic (Trans-Palaearctic) Temperate.

Steatoda grossa (C. L. Koch, 1838)

Material (Fig. 292): Izhevsk (24): 2 ♂, heated dwellings, 22.II.2012, leg.

A.N. Sozontov; 1 ♀, heated dwellings, 10.IX.2012, O.V. Bychkova; 1 subadult ♂, 1 subadult ♀, agrocoenosis, 15.IX.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda (49): 1 ♂, 5 ♀, 1 subadult ♂, 9 juv., heated dwellings, 5.VI.2017, leg. A.N. Iziboldina; 1 ♀, heated dwellings, 27.VI.2017, leg. A.N. Iziboldina; 1 ♂, 1 ♀, 1 subadult ♀, heated dwellings, 27.VII.2017, leg. A.N. Iziboldina; 3 ♂, 9 ♀, 1 subadult ♀, 1 juv., heated dwellings, 27.VIII.2017, leg. A.N. Iziboldina; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VII.2012, A.A. Ivanova; Votkinsk Distr.: Noviy (35): 1 ♂, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: Starye Zyatci (15): 3 ♀, heated dwellings, 2.III.2011, leg. A.N. Sozontov; 1 ♂, unheated indoor spaces, 2.VI.2011, leg. A.N. Sozontov; 1 ♀, heated dwellings, 25.VII.2011, leg. A.N. Sozontov.

Biotope preferences: IV – Heated spaces (95 %), III – Indoor spaces (70 %), II – Anthropogenic habitats (50 %), I – All the habitats (4 %), V – Agrophytocenoses (1 %).

Associated species. Quantitative: *Tegenaria domestica* (0.43), *Steatoda castanea* (0.14), *Larinioides ixobolus* (0.08), *Gnaphosa montana* (0.07), *Neriene clathrata* (0.06). **Qualitative:** *Tegenaria domestica* (0.52), *Steatoda castanea* (0.22), *Larinioides ixobolus* (0.21), *Gnaphosa montana* (0.20), *Steatoda bipunctata* (0.16).

Stratum: synanthrope (inside buildings, underground utilities).

Range: Cosmopolitan (Cosmopolitan) Synanthropic.

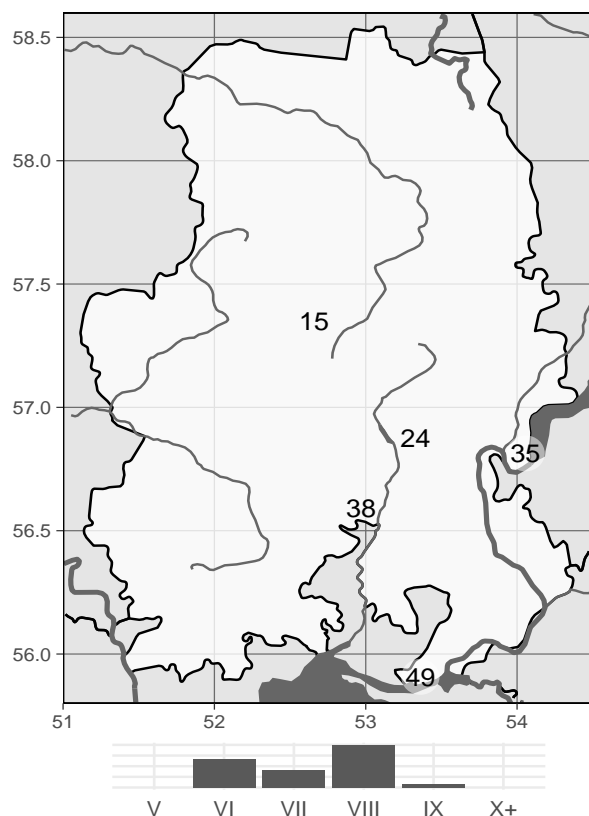


Fig. 292. Distribution map and phenology of *S. grossa*

***Theridion innocuum* Thorell, 1875**

Material: Alnashy Distr.: Golushurma (47): 1 ♀, sloping steppe meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; 1 ♀, faunistic record, 17.VI.2015, leg. A.N. Sozontov; 2 ♂, 1 subadult ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 21.VI.2015, leg. A.N. Sozontov.

Associated species. Qualitative: *Hypsosinga sanguinea* (0.36), *Heliophanus flavipes* (0.27), *Entelecara acuminata* (0.25), *Thanatus arenarius* (0.25), *Alopecosa farinosa* (0.22).

Stratum: herb.

Range: Euro-Siberian (East European-West Siberian) Subboreal-subarid.

***Theridion pictum* (Walckenaer, 1802)**

Material (Fig. 293): Alnashy Distr.: Golushurma (47): 1 ♂, edge of deciduous

forest, 3.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 2 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Karakulino Distr.: Byrgynda (49): 1 ♀, 1 juv., unheated indoor spaces, 5.VI.2017, leg. A.N. Izboldina; 2 ♀, unheated indoor spaces, 27.VI.2017, leg. A.N. Izboldina; 1 ♀, agrocoenosis, 27.VII.2017, leg. A.N. Izboldina; Shignanda (50): 1 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, open river bank, 6.VII.2011, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (32): 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 17.VII.2014, leg. A.V. Uskova; 1 ♂, 1 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 2 ♀, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♂, 1 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; 4 ♂, 6 ♀, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 4 ♂, 3 ♀, floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 3 ♂, 3 ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♂, 2 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♂, 1 ♀, *Pinus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♂, 2 ♀, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; Volkovskiy (36): 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov.

Associated species. Quantitative: *Theridion varians* (0.29), *Araniella proxima* (0.20), *Larinioides cornutus*

(0.17), *Xysticus ulmi* (0.16), *Phylloneta impressa* (0.15). **Qualitative:** *Theridion varians* (0.41), *Araniella proxima* (0.36), *Larinioides cornutus* (0.29), *Philodromus cespitum* (0.27), *Cheiracanthium erraticum* (0.26).

Stratum: herb, shrub.

Range: Holarctic (Circum-Holarctic) Subboreal-semiarid.

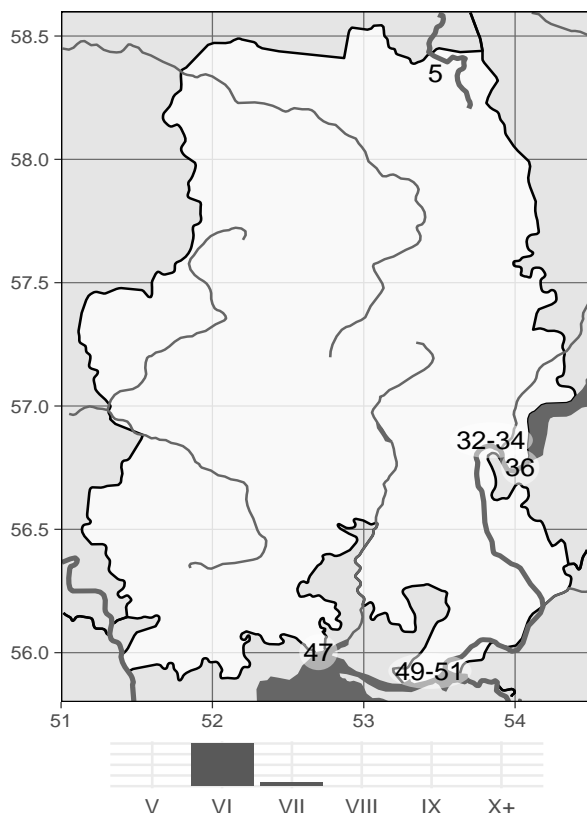


Fig. 293. Distribution map and phenology of *Th. pictum*

***Theridion pinastri* L. Koch, 1872**

Material (Fig. 294): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 21.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♂, edge of deciduous forest, 1.VII.2013, leg. A.V. Uskova.

Stratum: shrub, canopy.

Range: Palaearctic (Trans-Palaearctic) Temperate.

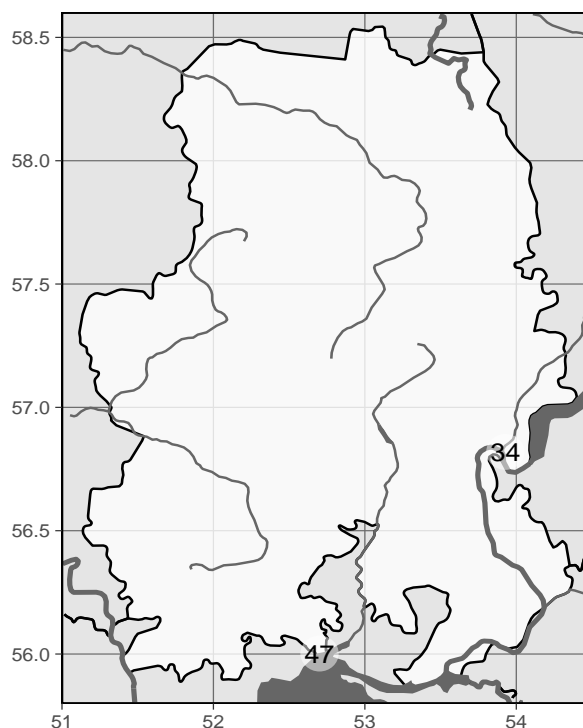


Fig. 294. Distribution map of *Th. pinastri*

***Theridion varians* Hahn, 1833**

Material (Fig. 295): Alnashy Distr.: Golushurma (47): 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♀, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 subadult ♂, *Abies-Picea* forest, 3.IX.2011, leg. E.S. Shirobokova; 1 subadult ♂, 1 subadult ♀, dark coniferous forest with *Tilia*, 6.VIII.2012, leg. E.S. Shirobokova; 1 juv., *Abies-Picea* forest, 27.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 2 ♂, 6 ♀, unheated indoor spaces, 5.VI.2017, leg. A.N. Izhboldina; 2 ♀, unheated indoor spaces, 27.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♀, *Pinus* forest, 15.VI.2012, leg. A.N. Sozontov; 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, open river bank, 8.VII.2011, leg. A.N. Sozontov; Malyashi (53): 1 ♂, open lake shore, 11.VI.2011, leg. A.N. Sozontov; 2 ♂, 1 ♀, riverain deciduous

forest, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Chepts (7): 2 ♀, *Pinus* forest, 14.VII.2008, leg. A.V. Ilyina; 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Bima (42): 2 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 2 ♀, watershed mixed forest, 10.VII.2014, leg. A.V. Uskova; 1 ♀, edge of deciduous forest, 16.VII.2014, leg. A.V. Uskova; 1 ♂, bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvashcheva; Siva's delta (34): 1 ♂, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 12.VI.2013, leg. A.V. Uskova; 1 ♂, 1 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 2 ♀, *Pinus* forest, 21.VI.2013, leg. A.V. Uskova; 2 ♀, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 30.VI.2013, leg. A.V. Uskova; 1 ♀, faunistic record, 30.VI.2017, leg. A.N. Sozontov; Noviy (35): 2 ♀, open raised bog, 19.VI.2009, leg. A.N. Sozontov; 2 ♀, open river bank, 2.VII.2010, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Yakshur-Bodya Distr.: 25-km Yakshur-Bodyinskiy trakt (18): 1 subadult ♂, watershed coniferous forest, 15.IX.2009, leg. A.N. Sozontov.

Associated species. Quantitative: *Theridion pictum* (0.29), *Parasteatoda tabulata* (0.28), *Larinioides patagiatus* (0.20), *Tetragnatha montana* (0.18), *Araneus angulatus* (0.18). **Qualitative:** *Theridion pictum* (0.41), *Tetragnatha montana* (0.29), *Larinioides patagiatus* (0.29), *Philodromus cespitum* (0.25), *Araneus angulatus* (0.23).

Stratum: tree stems.

Range: Holarctic (Sub-CircumHolarctic) Temperate.

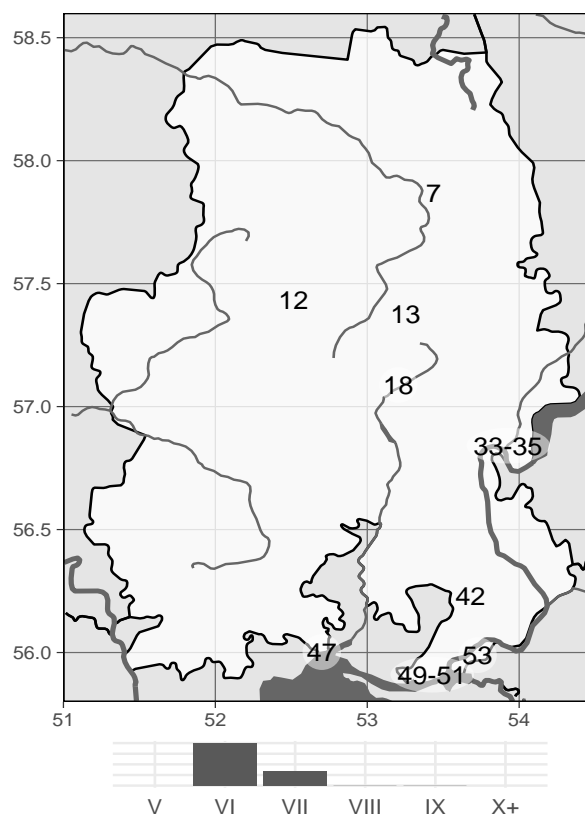


Fig. 295. Distribution map and phenology of *Th. varians*

3.24. THOMISIDAE

Coriarachne depressa (C. L. Koch, 1837)

Material (Fig. 296): Izhevsk (24): 3 ♀, *Pinus* forest, 10.IV.2013, leg. A.N. Sozontov; 1 juv., *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 subadult ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova.

Stratum: tree stems.

Range: Palaearctic (Trans-Palaearctic) Temperate.

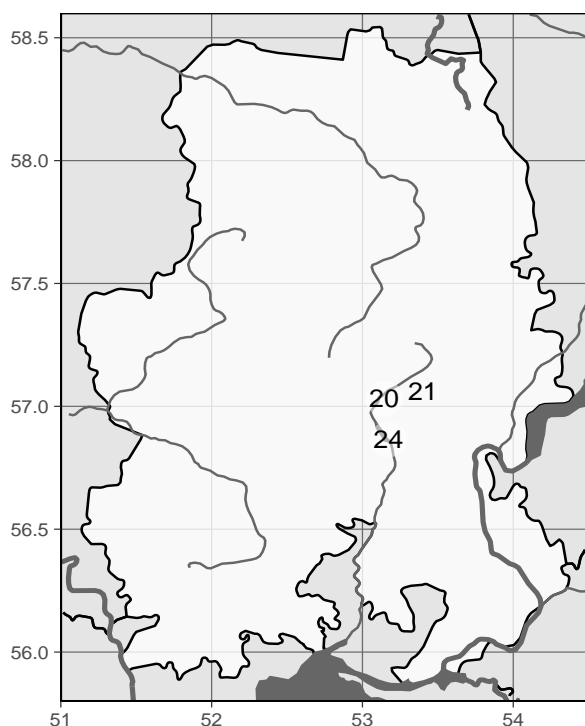


Fig. 296. Distribution map of *C. depressa*

***Ebrechtella tricuspidata* (Fabricius, 1775)**

Material (Fig. 297): Alnashy Distr.: Golushurma (**47**): 1 juv., sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 2 ♂, 1 ♀, open river bank, 21.V.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (**12**): 5 juv., edge of coniferous forest, 22.VI.2015, leg. A.N. Sozontov; Chutyr (**13**): 1 juv., bottomland meadow, 13.VI.2011, leg. E.S. Shirobokova; 2 juv., upland meadow, 22.VI.2011, leg. E.S. Shirobokova; 3 juv., upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, open river bank, 3.IX.2011, leg. E.S. Shirobokova; 1 juv., upland meadow, 29.VII.2012, leg. E.S. Shirobokova; 1 juv., anthropogenic habitat, 9.VIII.2012, leg. E.S. Shirobokova;

Karakulino Distr.: Byrgynda (**49**): 1 ♀, riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; 5 ♂, 2 ♀, 1 subadult ♂, 1 subadult ♀, sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 2 ♂, 1 subadult ♂, 1 juv., riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; 1 ♂, 2 juv., sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, open lake shore, 9.VII.2011, leg. A.N. Sozontov; 1 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 12 ♂, 2 subadult ♂, 2 subadult ♀, 1 juv., open river bank, 3.VIII.2012, leg. A.N. Sozontov; 1 ♂, 1 subadult ♂, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; 1 subadult ♂, open lake/pond shore, 4.VIII.2012, leg. A.N. Sozontov; Cheganda (52): 1 subadult ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (**44**): 3 ♂, 2 juv., faunistic record, 25.V.2013, leg. A.N. Sozontov; 3 ♂, 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (**38**): 1 subadult ♀, edge of deciduous forest, 18.VI.2015, leg. A.N. Sozontov; 3 subadult ♂, 6 subadult ♀, 11 juv., upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (**33**): 1 juv., *Tilia* forest, 29.VIII.2009, leg. A.N. Sozontov; 2 ♂, 1 subadult ♀, floodplain steppified meadow, 10.VIII.2010, leg. A.N. Sozontov; 1 subadult ♀, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; 5 ♂, floodplain *Quercus* forest, 19.VIII.2011, leg. A.N. Sozontov; 1 ♂, 1 juv., faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, edge of deciduous forest, 6.VII.2014, leg. A.V.

Uskova; 1 ♂, 1 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♂, bottomland meadow, 21.VI.2009, leg. A.N. Sozontov; 1 ♂, 8 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 6 ♀, 1 juv., floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 2 ♂, 15 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 29.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 1 juv., *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 17.VI.2009, leg. A.N. Sozontov; 1 subadult ♂, sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 1 subadult ♀, open river bank, 19.VIII.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 ♂, open raised bog, 18.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain *Quercus* forest, 20.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Pozym Kabanikha (28): 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov; Doksha (29): 3 ♂, *Tilia* forest, 10.VIII.2010, leg. A.N. Sozontov; Golyany Zakamye (31): 2 ♂, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (21 %), II – Wetlands (17 %), IV – Floodplain *Quercus* forests (12 %), IV – Open banks of rivers (11 %), III – Watersides (10 %).

Associated species. Quantitative: *Singa hamata* (0.28), *Spiracme striatipes* (0.22), *Agalenatea redii* (0.21), *Araneus quadratus* (0.19), *Mangora acalypha* (0.18). **Qualitative:** *Philodromus cespitum* (0.34), *Micrommata virescens*

(0.33), *Singa hamata* (0.32), *Tetragnatha pinicola* (0.27), *Mangora acalypha* (0.26).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

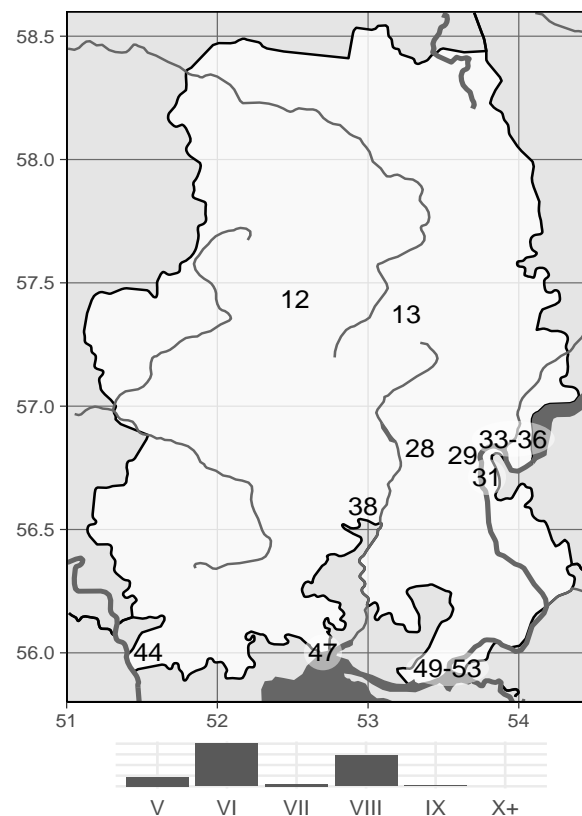


Fig. 297. Distribution map and phenology of *E. tricuspidata*

Misumena vatia (Clerck, 1757)

Material (Fig. 298): Alnashy Distr.: Staryi Utchan (45): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Pirogovo (46): 1 subadult ♀, upland meadow, 10.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♂, 1 subadult ♀, edge of deciduous forest, 6.VII.2014, leg. A.N. Sozontov; 1 subadult ♀, 1 juv., sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♂, 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 3 ♂, 7 juv., sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 25.VI.2015, leg.

A.N. Sozontov; Balezino Distr.: Sergino (5): 2 ♂, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 2 juv., upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 subadult ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, edge of mixed forest, 2.VII.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 20.VIII.2011, leg. E.S. Shirobokova; 1 subadult ♂, upland meadow, 20.VIII.2011, leg. E.S. Shirobokova; 1 subadult ♀, edge of mixed forest, 29.VII.2012, leg. E.S. Shirobokova; 1 juv., bottomland meadow, 9.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♂, 2 juv., upland meadow, 12.VIII.2012, leg. E.S. Shirobokova; 1 subadult ♂, 1 juv., open river bank, 27.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Cheganda (52): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 4 ♂, 3 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; Kiyasovo Distr.: Baisary (48): 1 juv., faunistic record, 29.VI.2015, L.P. Pyatak; Kizner Distr.: Krymskaya Sludka (44): 3 ♂, faunistic record, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, 6 subadult ♂, 2 juv., upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Mozhga Distr.: Porshur (37): 1 ♀, bank and shore, 21.VII.2008, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, dark coniferous forest with *Tilia*, 9.VIII.2009, leg. A.N. Sozontov; Sharkan Distr.: Sharkan (22): 1 juv., sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Ledukhi (32): 3 juv., faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, floodplain steppified meadow,

10.VIII.2010, leg. A.N. Sozontov; 1 ♀, 1 juv., bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvasheva; 1 ♂, 2 juv., bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvasheva; 1 ♂, 5 ♀, 14 juv., bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvasheva; 2 juv., bottomland meadow, 28.VI.2017, leg. Ya.A. Chuvasheva; 1 ♂, 2 ♀, 2 juv., bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvasheva; 1 ♂, 1 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvasheva; 1 subadult ♀, bottomland meadow, 13.VII.2017, leg. Ya.A. Chuvasheva; Siva's delta (34): 1 ♀, 3 juv., floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; Noviy (35): 1 juv., *Pinus* forest, 17.VI.2009, leg. A.N. Sozontov; 1 ♀, dark coniferous forest with *Tilia*, 19.VI.2009, leg. A.N. Sozontov; 3 subadult ♂, 4 juv., sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 2 ♀, 1 subadult ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; 1 subadult ♂, 1 subadult ♀, 7 juv., faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Volkovskiy (36): 1 ♂, bog, 12.VI.2010, leg. A.N. Sozontov; Yarskiy Distr.: Perelom (1): 1 juv., faunistic record, 25.VII.2012, leg. A.N. Sozontov.

Biotope preferences: I – All the habitats (18 %), II – Meadowlands (16 %), IV – Floodplain mesophytic meadows (13 %), IV – Edges of mixed forests (13 %), III – Floodplain meadows (12 %).

Associated species. Quantitative: *Evarcha arcuata* (0.31), *Tetragnatha pinicola* (0.26), *Aculepeira ceropegia* (0.24), *Tetragnatha extensa* (0.22), *Xysticus ulmi* (0.22). **Qualitative:** *Evarcha arcuata* (0.39), *Tetragnatha pinicola* (0.38), *Tetragnatha extensa* (0.35), *Xysticus ulmi* (0.30), *Mangora acalypha* (0.28).

Stratum: herb.

Range: Holarctic (Circum-Holarctic) Polyzoal.

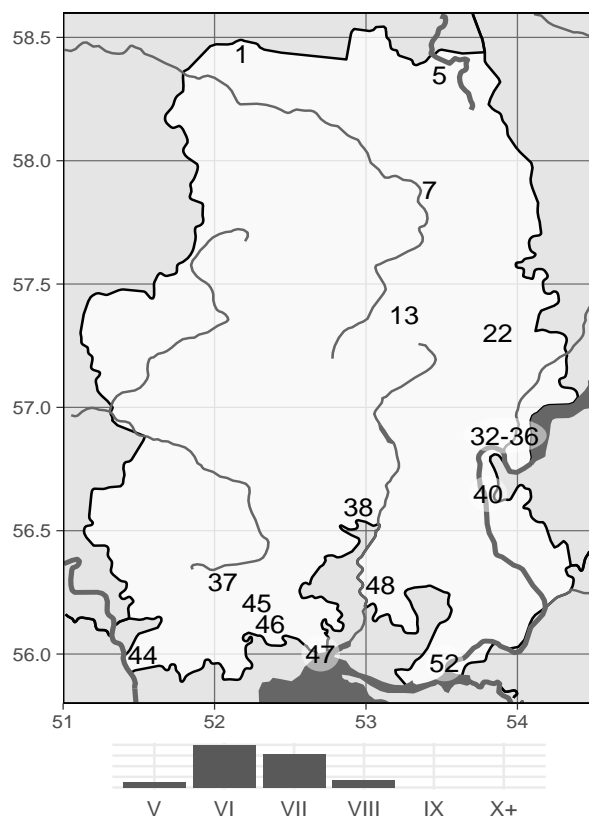


Fig. 298. Distribution map and phenology of *M. vatia*

***Ozyptila claveata* (Walckenaer, 1837)**

Material (Fig. 299): Sarapul Distr.: Sokolovka (43): 2 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 15 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, 1 ♀, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, upland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 26.VI.2017, leg. K.S. Tatarkin; 1 ♀, edge of coniferous forest, 24.VIII.2017, leg. K.S. Tatarkin.

Associated species. Quantitative: *Bathyphantes nigrinus* (0.34), *Oedothorax gibbosus* (0.30), *Haplodrassus signifer* (0.30), *Asagena phalerata* (0.30), *Pachygnatha clercki* (0.28). **Qualitative:** *Micaria silesiaca*

(0.57), *Arctosa figurata* (0.47), *Oedothorax gibbosus* (0.43), *Thanatus arenarius* (0.37), *Xysticus bifasciatus* (0.37).

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal.



Fig. 299. Phenology of *O. claveata*

***Ozyptila praticola* (C. L. Koch, 1837)**

Material (Fig. 300): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 15 ♂, 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 2 ♂, 1 ♀, *Abies-Picea* forest, 29.VI.2014, leg. A.N. Sozontov; 11 ♂, 2 juv., riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 2 ♂, 2 ♀, riverain deciduous forest, 15.VII.2014, leg. A.N. Sozontov; 2 ♂, 1 ♀, riverain deciduous forest, 5.VIII.2014, leg. A.N. Sozontov; 16 ♂, 9 ♀, riverain deciduous forest, 30.VIII.2014, leg. A.N. Sozontov; 2 ♂, riverain deciduous forest, 11.VI.2015, leg. A.N. Sozontov; 1 juv., riverain deciduous forest, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 1 ♂, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 1.VII.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 3.IX.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, edge of mixed forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 29.VI.2012, leg. E.S. Shirobokova; 1 ♂, 1 subadult ♂, dark coniferous forest with *Tilia*, 29.VII.2012, leg. E.S. Shirobokova;

3 ♂, edge of mixed forest, 29.VII.2012, leg. E.S. Shirobokova; 2 ♂, 1 ♀, edge of mixed forest, 12.VIII.2012, leg. E.S. Shirobokova; 5 ♂, 1 ♀, edge of mixed forest, 27.VIII.2012, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 8.IX.2012, leg. E.S. Shirobokova; 1 ♂, *Alnus* groves, 8.IX.2012, leg. E.S. Shirobokova; 2 ♂, 2 ♀, edge of mixed forest, 8.IX.2012, leg. E.S. Shirobokova; 2 ♂, dark coniferous forest with *Tilia*, 28.IX.2012, leg. E.S. Shirobokova; 1 ♂, edge of coniferous forest, 8.VII.2014, leg. A.N. Sozontov; Izhevsk (24): 3 ♂, 1 ♀, dark coniferous forest with *Tilia*, 31.VIII.2012, leg. A.N. Sozontov; 1 ♀, *Pinus* forest, 16.IV.2013, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 9 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; 2 ♂, 1 ♀, agrocoenosis, 5.VI.2017, leg. A.N. Izhboldina; Shignanda (50): 1 ♂, riverain deciduous forest, 15.VI.2012, leg. A.N. Sozontov; 1 ♂, 3 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 41 ♂, 2 ♀, 1 juv., riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, 1 juv., riverain deciduous forest, 8.VII.2011, leg. A.N. Sozontov; 48 ♂, 3 ♀, 1 juv., floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 15 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 1 ♂, riverain deciduous forest, 3.VIII.2012, leg. A.N. Sozontov; 8 ♂, *Pinus* forest, 4.VIII.2012, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 juv., dark coniferous forest with *Tilia*, 18.VI.2015, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, *Pinus* forest, 14.VIII.2009, leg. A.N. Sozontov; Sokolovka (43): 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♂, watershed coniferous forest, 28.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33):

1 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♂, floodplain *Quercus* forest, 19.VI.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 1.VII.2016, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 11.VII.2016, leg. A.V. Uskova; 3 ♂, floodplain *Quercus* forest, 5.VIII.2016, leg. A.V. Uskova; 1 ♀, *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Siva's delta (34): 14 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♂, *Tilia* forest, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 4 ♂, 1 subadult ♀, *Tilia* forest, 3.VII.2014, leg. A.N. Sozontov; 2 ♂, *Tilia* forest, 24.VIII.2014, leg. A.N. Sozontov; SNT 'Sirius' (20): 1 ♀, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 2 ♂, 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 10.VII.2018, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 14.VIII.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova; 2 ♂, 1 ♀, watershed coniferous forest, 25.VIII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 11 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 36 ♂, 1 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 2 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 2 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotopic preferences: II – Woodlands (33 %), III – Upland *Tilia* forests (28 %),

I – All the habitats (27 %), IV – Floodplain broadleaved forests (24 %), III – Floodplain deciduous forests (23 %).

Associated species. Quantitative: *Xysticus luctator* (0.46), *Walckenaeria atrotibialis* (0.27), *Diplostyla concolor* (0.24), *Abacoproeces saltuum* (0.24), *Pardosa lugubris* (0.23). **Qualitative:** *Zelotes subterraneus* (0.37), *Pardosa lugubris* (0.36), *Abacoproeces saltuum* (0.33), *Tenuiphantes tenebricola* (0.32), *Diplostyla concolor* (0.32).

Stratum: litter.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

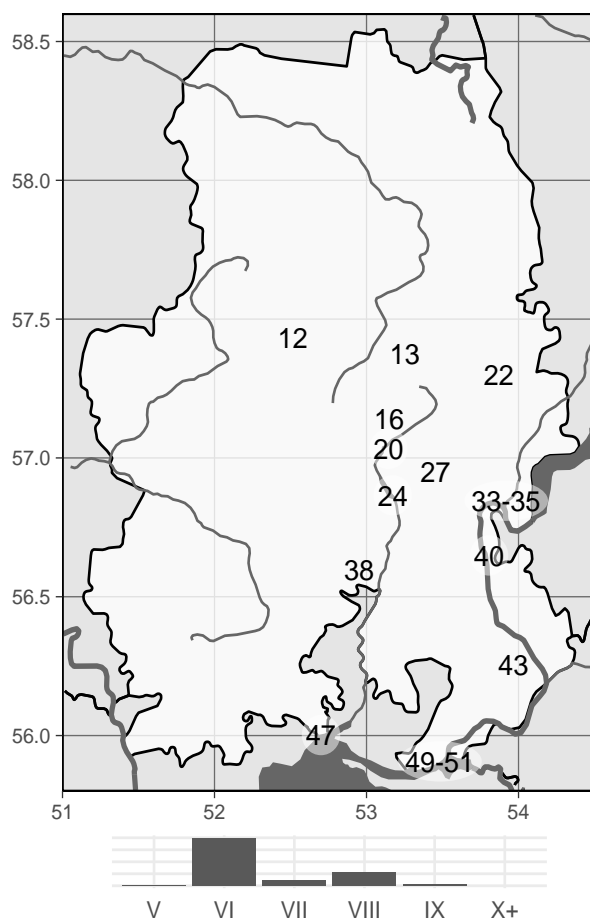


Fig. 300. Distribution map and phenology of *O. praticola*

Ozyptila trux (Blackwall, 1846)

Material (Fig. 301): Glazov Distr.: Lyum (4): 1 ♀, *Abies-Picea* forest, 13.VIII.2014, leg. A.N. Sozontov;

Karakulino Distr.: Byrgynda (49): 1 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; 2 ♂, 1 ♀, floodplain steppified meadow, 18.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♂, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 2 ♂, 2 ♀, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; 4 ♂, 2 ♀, bottomland meadow, 26.VI.2017, leg. K.S. Tatarkin; 3 ♂, edge of coniferous forest, 26.VI.2017, leg. K.S. Tatarkin; 1 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♀, faunistic record, 15.VI.2013, leg. S.V. Dedyukhin; 1 ♂, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♀, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Zavyalovo Distr.: Khohryaki (27): 4 ♂, dark coniferous forest with *Tilia*, 24.VI.2013, leg. A.N. Sozontov; 25 ♂, 6 ♀, *Tilia* forest, 24.VI.2013, leg. A.N. Sozontov; 3 ♂, *Tilia* forest, 25.VI.2013, leg. A.N. Sozontov; 1 ♂, watershed coniferous forest, 25.VI.2013, leg. A.N. Sozontov.

Biotope preferences: III – Upland *Tilia* forests (33 %), IV – *Tilia* forests (29 %), I – All the habitats (10 %), II –

Woodlands (7 %), II – Meadowlands (4 %).

Associated species. Quantitative: *Agyneta olivacea* (0.49), *Bathyphantes gracilis* (0.42), *Walckenaeria atrotibialis* (0.39), *Diplocephalus picinus* (0.35), *Piratula hygrophila* (0.33). **Qualitative:** *Euryopis flavomaculata* (0.39), *Diplocephalus picinus* (0.38), *Piratula hygrophila* (0.36), *Bathyphantes nigrinus* (0.35), *Microneta viaria* (0.29).

Stratum: litter.

Range: Euro-Siberian (Trans-EuroSiberian) Temperate.

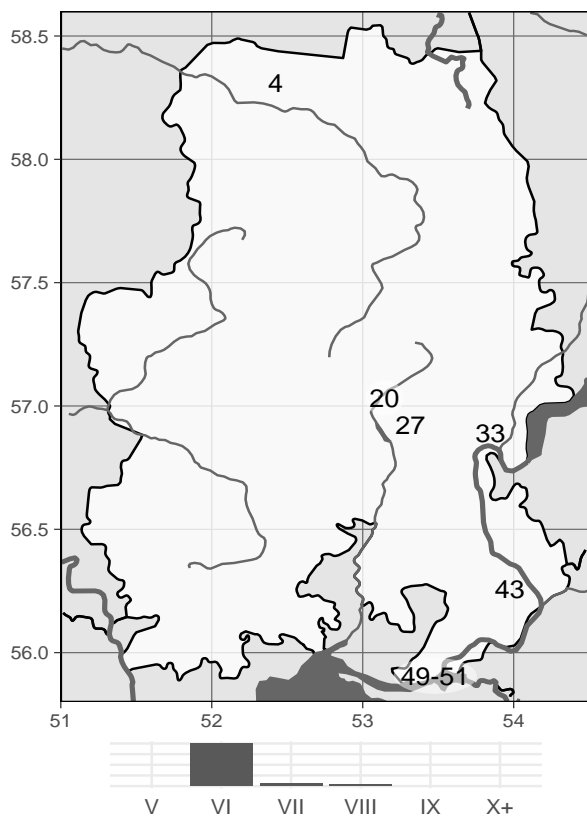


Fig. 301. Distribution map and phenology of *O. trux*

***Psammitis sabulosus* (Hahn, 1832)**

Material: Zavyalovo Distr.: Golyany Zakamye (31): 1 ♀, sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

Stratum: ground.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

***Spiracme striatipes* (L. Koch, 1870)**

Material (Fig. 302): Alnashy Distr.: Golushurma (47): 1 ♂, faunistic record, 15.IX.2012, leg. S.V. Dedyukhin; 3 ♂, 4 ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 6 ♀, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 6 ♂, 1 ♀, sloping steppe meadow, 30.VIII.2014, leg. A.N. Sozontov; 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, upland meadow, 7.VIII.2011, leg. E.S. Shirobokova; Karakulino Distr.: Byrgynda (49): 9 ♂, 2 ♀, 2 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 20 ♂, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♂, sloping steppe meadow, 4.VIII.2012, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 62 ♂, 2 ♀, 1 juv., upland meadow, 25.VII.2016, leg. N.A. Bliznetsova; Sarapul Distr.: Dulesovo (41): 1 ♂, faunistic record, 30.VIII.2011, leg. S.V. Dedyukhin; Votkinsk Distr.: Siva's delta (34): 2 ♂, floodplain steppified meadow, 21.VIII.2009, leg. A.N. Sozontov; 31 ♂, bottomland meadow, 23.VIII.2011, leg. A.N. Sozontov; Noviy (35): 1 ♀, sloping steppe meadow, 19.VI.2009, leg. A.N. Sozontov; Volkovskiy (36): 1 ♀, sloping steppe meadow, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; Zavyalovo Distr.: Golyany Zakamye (31): 1 ♂, floodplain steppified meadow, 7.VIII.2010, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: II – Meadowlands (19 %), III – Dry meadows

(18 %), IV – Steppified slope meadows (12 %), I – All the habitats (8 %), IV – Floodplain mesophytic meadows (6 %).

Associated species. Quantitative: *Agalenatea redii* (0.54), *Araneus quadratus* (0.42), *Ebrechtella tricuspidata* (0.22), *Rhysodromus histrio* (0.15), *Alopecosa solitaria* (0.12). **Qualitative:** *Rhysodromus histrio* (0.36), *Agalenatea redii* (0.35), *Linyphia tenuipalpis* (0.31), *Titanoeca spominima* (0.30), *Mustelicosia dimidiata* (0.29).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Subboreal-subarid.

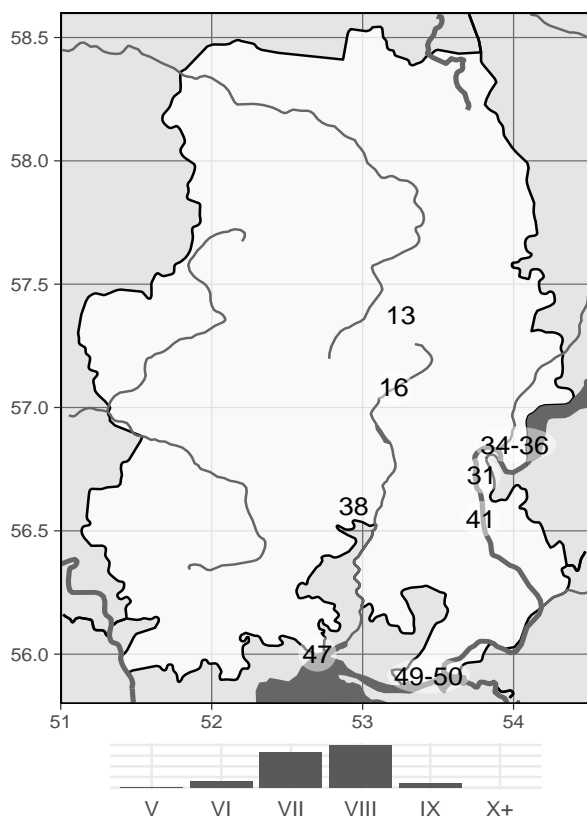


Fig. 302. Distribution map and phenology of *S. striatipes*

Tmarus piger (Walckenaer, 1802)

Material (Fig. 303): Karakulino Distr.: Byrgynda (49): 1 juv., riverain deciduous forest, 15.VIII.2011, leg. A.N. Sozontov; 1 juv., sloping steppe meadow, 15.VIII.2011, leg. A.N. Sozontov; 1 juv.,

riverain deciduous forest, 4.VIII.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♂, faunistic record, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, open river bank, 8.VII.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 3 ♂, 5 ♀, faunistic record, 25.V.2013, leg. A.N. Sozontov; 1 ♀, 1 subadult ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Sarapul Distr.: Bima (42): 1 ♂, 6 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: Siva's delta (34): 1 ♂, 1 ♀, faunistic record, 30.VI.2017, leg. A.N. Sozontov; Noviy (35): 1 subadult ♀, sloping steppe meadow, 18.VIII.2009, leg. A.N. Sozontov; 1 juv., dark coniferous forest with *Tilia*, 19.VIII.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 1.VII.2013, leg. V.I. Kapitonov; Yakshur-Bodya Distr.: 25-km Yakshur-Bodyinskiy trakt (18): 1 subadult ♀, *Pinus* forest, 15.IX.2009, leg. A.N. Sozontov; 2 juv., watershed coniferous forest, 15.IX.2009, leg. A.N. Sozontov; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova; Zavyalovo Distr.: Golyany Zakamye (31): 1 juv., sloping steppe meadow, 7.VIII.2010, leg. A.N. Sozontov.

Biotope preferences: IV – *Abies-Picea* forests (6 %), I – All the habitats (6 %), IV – Open banks of rivers (5 %), II – Wetlands (5 %), III – Upland coniferous forests (4 %).

Associated species. Quantitative: *Nerienne radiata* (0.33), *Mangora acalypha* (0.22), *Evarcha falcata* (0.17), *Cyclosa conica* (0.16), *Hypsosinga sanguinea* (0.15). **Qualitative:** *Nerienne radiata* (0.32), *Cyclosa conica* (0.26), *Tetragnatha obtusa* (0.22), *Theridion varians* (0.22), *Ballus chalybeius* (0.21).

Stratum: tree stems, canopy.

Range: Palaearctic (Trans-Palaearctic) Subboreal.

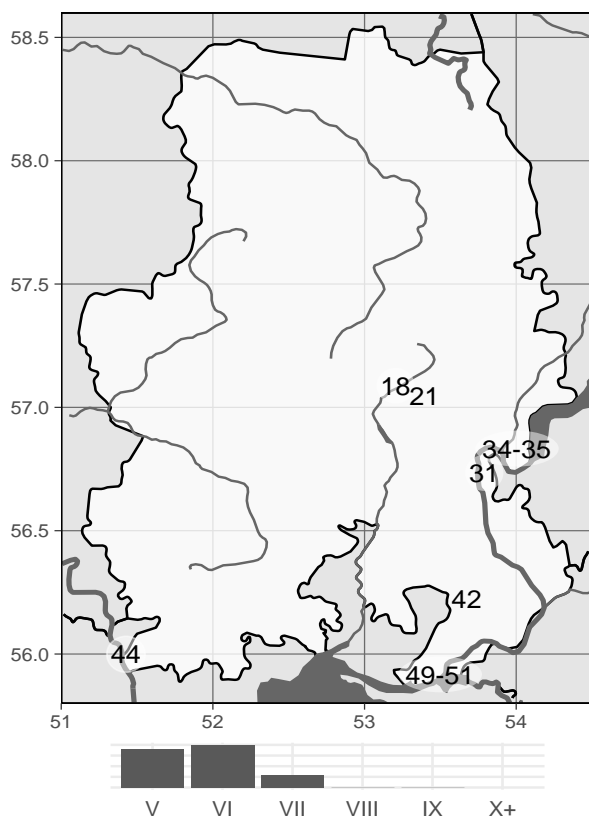


Fig. 303. Distribution map and phenology of *T. piger*

***Xysticus audax* (Schrank, 1803)**

Material (Fig. 304): Igra Distr.: Chutyr (13): 1 ♂, *Abies-Picea* forest, 29.V.2011, leg. E.S. Shirobokova; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 3.VIII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 4 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Associated species. Qualitative: *Neon reticulatus* (0.36), *Centromerus clarus* (0.33), *Agyneta subtilis* (0.29), *Diplocephalus latifrons* (0.27), *Centromerus incilium* (0.25).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Polyzonal.

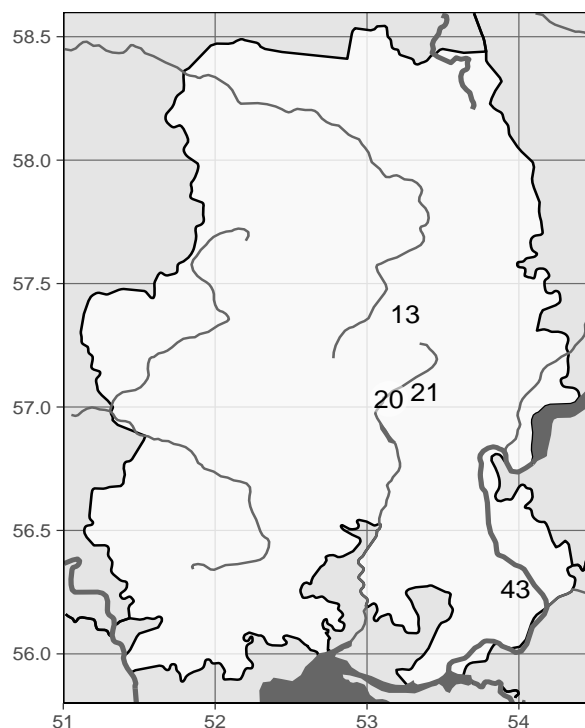


Fig. 304. Distribution map of *X. audax*

***Xysticus bifasciatus* C. L. Koch, 1837**

Material (Fig. 305): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 11.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 2 ♂, upland meadow, 21.V.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 6 ♂, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, edge of mixed forest, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 25.VI.2011, leg. E.S. Shirobokova; 3 ♂, 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 16.VII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 1 ♂, 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♀, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; Sokolovka (43): 3 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, 1 ♀,

edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♀, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 2 ♂, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 5 ♂, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 3 ♂, sloping steppe meadow, 19.VI.2017, leg. K.S. Tatarkin; Yarskiy Distr.: Perelom (1): 1 ♀, floodplain steppified meadow, 9.VII.2015, leg. A.N. Sozontov.

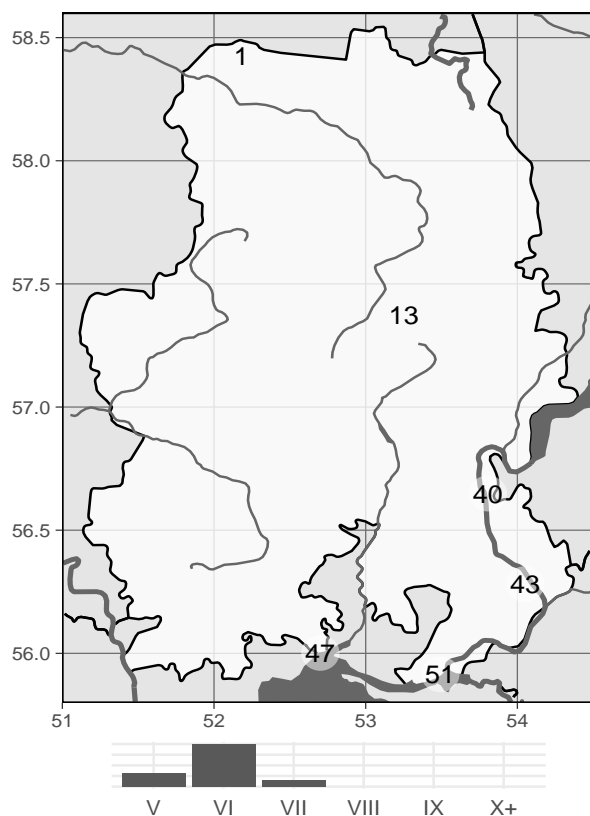


Fig. 305. Distribution map and phenology of *X. bifasciatus*

Biotope preferences: IV – Edges of mixed forests (9 %), I – All the habitats (8 %), II – Ecotones (8 %), II – Meadowlands (7 %), IV – Edges of coniferous forests (6 %).

Associated species. Quantitative: *Arctosa figurata* (0.26), *Ozyptila claveata* (0.26), *Drassyllus pusillus* (0.23), *Xysticus cristatus* (0.20), *Asagena phalerata* (0.18). **Qualitative:** *Ozyptila claveata* (0.37), *Drassyllus pusillus* (0.35),

Micaria silesiaca (0.32), *Haplodrassus pseudosignifer* (0.31), *Asagena phalerata* (0.30).

Stratum: ground, herb.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

Xysticus cristatus (Clerck, 1757)

Material (Fig. 306): Alnashy Distr.: Golushurma (47): 5 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♂, 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Debesy Distr.: Baygurez (10): 1 ♀, sloping steppe meadow, 18.V.2011, leg. S.V. Dedyukhin; Varni (11): 1 ♀, faunistic record, 18.V.2011, leg. S.V. Dedyukhin; Igra Distr.: Chutyr (13): 1 ♀, dark coniferous forest with *Tilia*, 21.V.2011, leg. E.S. Shirobokova; 1 ♂, bottomland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, dark coniferous forest with *Tilia*, 29.V.2011, leg. E.S. Shirobokova; 1 ♂, 2 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 2 ♂, 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, *Abies-Picea* forest, 25.VI.2011, leg. E.S. Shirobokova; 2 ♀, upland meadow, 24.VII.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 6.VIII.2012, leg. E.S. Shirobokova; 1 ♀, *Abies-Picea* forest, 12.VIII.2012, leg. E.S. Shirobokova; Karakulino Distr.: Ust'-Belsk (51): 2 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2011, leg. A.N. Sozontov; Cheganda (52): 3 ♀,

sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Kez Distr.: Cheptsy (7): 1 ♀, agrocoenosis, 15.VII.2008, leg. A.V. Ilyina; 2 ♂, upland meadow, 16.VII.2008, leg. A.V. Ilyina; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, floodplain *Quercus* forest, 10.VI.2009, leg. A.N. Sozontov; Sokolovka (43): 4 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, sloping steppe meadow, 11.VI.2017, leg. K.S. Tatarkin; 3 ♂, upland meadow, 11.VI.2017, leg. K.S. Tatarkin; 1 ♂, edge of coniferous forest, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, bottomland meadow, 24.VIII.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 27.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 4 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 1 ♀, edge of deciduous forest, 5.VII.2014, leg. A.V. Uskova; 1 ♀, watershed mixed forest, 16.VII.2014, leg. A.V. Uskova; 1 ♂, 2 ♀, upland meadow, 8.VI.2017, leg. A.N. Sozontov; 2 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 2 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♀, *Pinus* forest, 11.VI.2013, leg. A.V. Uskova; Noviy (35): 1 ♂, dark coniferous forest with *Tilia*, 19.VI.2009, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 12.VI.2010, leg. A.N. Sozontov; 2 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovskiy (36): 1 ♀, open raised bog, 18.VI.2009, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 1 ♂, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov; 1 ♀, faunistic record, 29.VI.2014, leg. A.N. Sozontov; 1 ♀, edge of coniferous forest, 24.VIII.2014, leg. A.N. Sozontov;

SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 24.V.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 2 ♀, *Pinus* forest, 6.VI.2018, leg. S.A. Shirobokova; 1 ♀, *Pinus* forest, 25.VIII.2018, leg. S.A. Shirobokova.

Biotope preferences: I – All the habitats (20 %), II – Meadowlands (18 %), III – Dry meadows (10 %), III – Floodplain meadows (6 %), IV – Upland meadows (6 %).

Associated species. Quantitative: *Tibellus oblongus* (0.25), *Xysticus kochi* (0.21), *Xysticus bifasciatus* (0.20), *Evarcha arcuata* (0.18), *Drassyllus pusillus* (0.18). **Qualitative:** *Dictyna arundinacea* (0.29), *Tibellus oblongus* (0.28), *Xysticus kochi* (0.28), *Evarcha arcuata* (0.28), *Pardosa palustris* (0.25).

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic) Polyzoal.

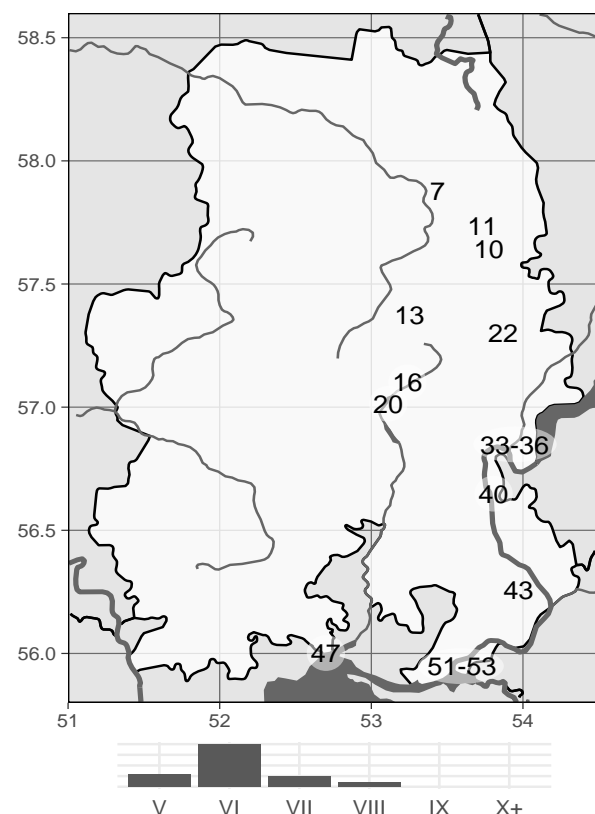


Fig. 306. Distribution map and phenology of *X. cristatus*

Xysticus kochi Thorell, 1872

Material (Fig. 307): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 1 ♂, faunistic record, 4.VI.2013, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 6.VII.2014, leg. A.N. Sozontov; 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 17.VI.2015, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, upland meadow, 29.V.2011, leg. E.S. Shirobokova; 1 ♀, bottomland meadow, 4.VI.2011, leg. E.S. Shirobokova; 1 ♂, 1 ♀, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♂, open river bank, 2.VII.2011, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, agrocoenosis, 15.VI.2013, leg. S.V. Dedyukhin; Karakulino Distr.: Ust'-Belsk (51): 1 ♀, sloping steppe meadow, 7.VII.2011, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♀, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Sokolovka (43): 1 ♂, bottomland meadow, 11.VI.2017, leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♀, sloping steppe meadow, 26.VI.2012, leg. A.N. Sozontov.

Biotopic preferences: II – Anthropogenic habitats (10 %), III – Dry meadows (8 %), I – All the habitats (7 %), II – Meadowlands (6 %), III – Agrophytocenoses (5 %).

Associated species. Quantitative: *Thanatus formicinus* (0.38), *Pisaura mirabilis* (0.24), *Xysticus cristatus* (0.21), *Haplodrassus moderatus* (0.20), *Euryopis saukea* (0.19). **Qualitative:** *Thanatus formicinus* (0.43), *Pisaura mirabilis* (0.29), *Xysticus cristatus* (0.28), *Heliophanus flavipes* (0.24), *Euryopis saukea* (0.22).

Stratum: ground, herb.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

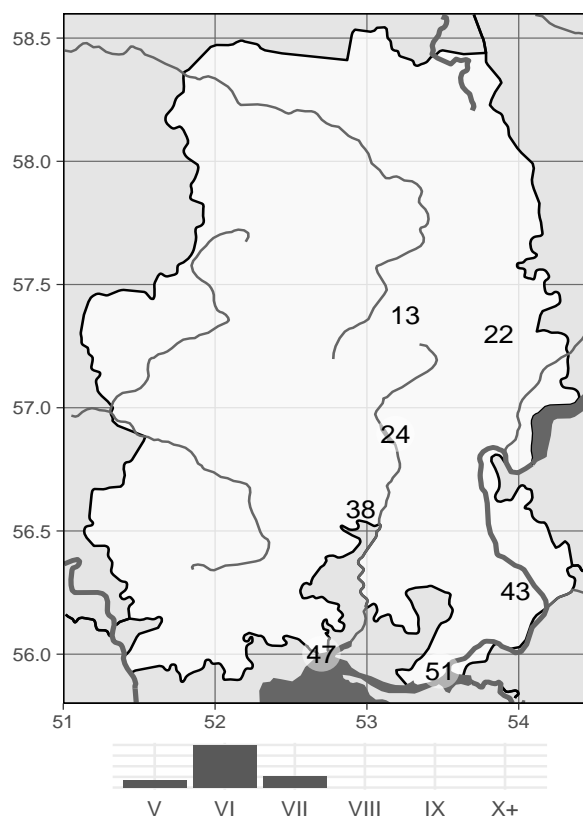


Fig. 307. Distribution map and phenology of *X. kochi*

Xysticus lanio C. L. Koch, 1835

Material (Fig. 308): Karakulino Distr.: Malyashi (53): 1 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevoznoe) (33): 1 ♀, floodplain *Quercus* forest, 7.VI.2017, leg. A.N. Sozontov; Noviy (35): 1 ♂, *Pinus* forest, 16.VI.2009, leg. A.N. Sozontov; Zavyalovo Distr.: Khohryaki (27): 2 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov.

Stratum: herb.

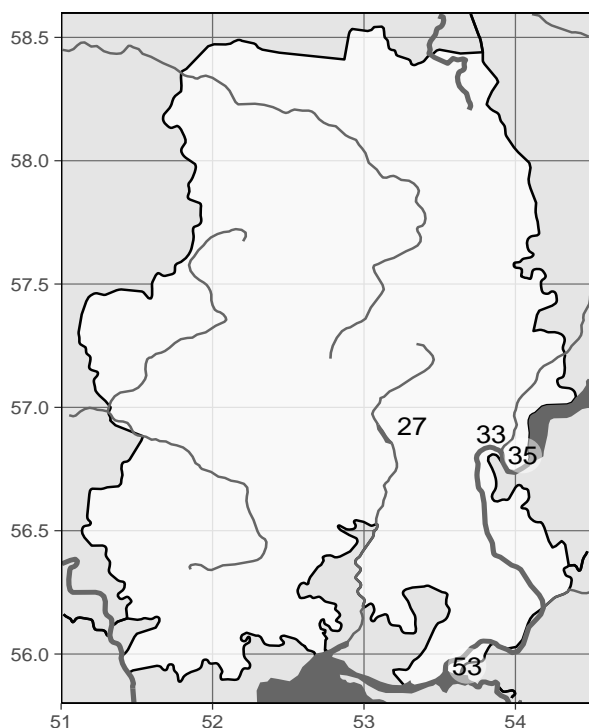
Range: Palaearctic (West-Central-Palaearctic) Subboreal.

Xysticus lineatus (Westring, 1851)

Material: Igra Distr.: Chutyr (13): 1 ♀, agrocoenosis, 28.V.2011, leg. E.S. Shirobokova.

Stratum: herb.

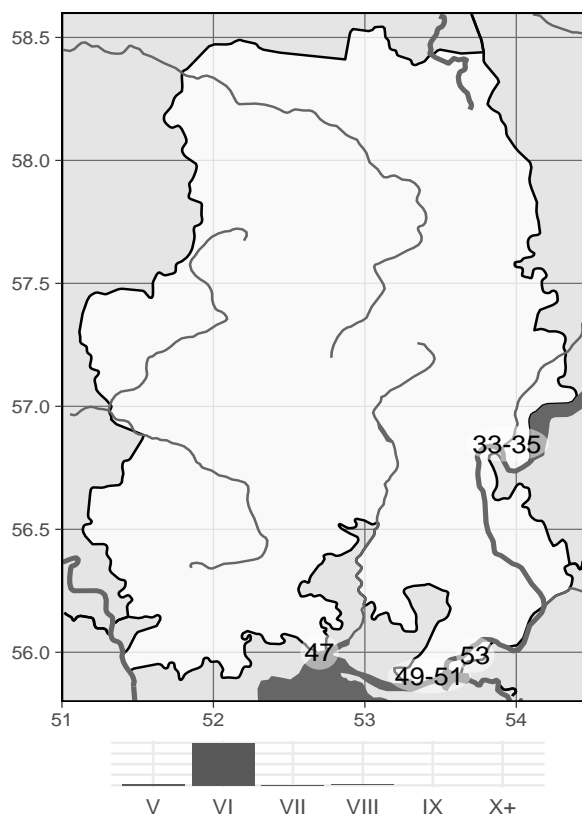
Range: Euro-Siberian (European-WestSiberian) Temperate.

Fig. 308. Distribution map of *X. lanio**Xysticus luctator* L. Koch, 1870

Material (Fig. 309): Alnashy Distr.: Golushurma (47): 4 ♂, riverain deciduous forest, 28.V.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 22 ♂, 1 ♀, riverain deciduous forest, 17.VI.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 16 ♂, riverain deciduous forest, 29.VI.2014, leg. A.N. Sozontov; Karakulino Distr.: Byrgynda (49): 4 ♂, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Shignanda (50): 1 ♂, riverain deciduous forest, 15.VI.2012, leg. A.N. Sozontov; 2 ♀, faunistic record, 16.VI.2012, leg. A.N. Sozontov; 25 ♂, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Ust'-Belsk (51): 1 ♀, open lake shore, 9.VII.2011, leg. S.V. Dedyukhin; 22 ♂, 7 ♀, floodplain *Quercus* forest, 16.VI.2012, leg. A.N. Sozontov; 13 ♂, 1 ♀, riverain deciduous forest, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 5 ♂, riverain deciduous

forest, 11.VI.2011, leg. A.N. Sozontov; Votkinsk Distr.: 'Siva' biostation (Perevozhnoe) (33): 1 ♂, *Tilia* forest, 25.VIII.2009, leg. A.N. Sozontov; 1 ♀, *Tilia* forest, 27.VIII.2009, leg. A.N. Sozontov; 1 ♂, *Tilia* forest, 28.VIII.2009, leg. A.N. Sozontov; 3 ♂, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 3 ♂, edge of deciduous forest, 19.VI.2014, leg. A.V. Uskova; 1 ♂, floodplain *Quercus* forest, 2.VI.2016, leg. A.V. Uskova; 1 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 20 ♂, floodplain *Quercus* forest, 8.VI.2016, leg. A.V. Uskova; Noviy (35): 1 ♀, edge of mixed forest, 16.VI.2009, leg. A.N. Sozontov.

Biotope preferences: IV – Floodplain broadleaved forests (33%), III – Floodplain deciduous forests (33 %), II – Woodlands (9 %), I – All the habitats (7 %), IV – Floodplain *Quercus* forests (6 %).

Fig. 309. Distribution map and phenology of *X. luctator*

Associated species. Quantitative: *Oxyptila praticola* (0.46), *Abacoproeces saltuum* (0.33), *Euryopis flavomaculata* (0.29), *Haplodrassus silvestris* (0.27), *Pardosa lugubris* (0.19). **Qualitative:** *Haplodrassus silvestris* (0.34), *Abacoproeces saltuum* (0.32), *Drassyllus lutetianus* (0.32), *Phrurolithus festivus* (0.29), *Euryopis flavomaculata* (0.29).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal.

Xysticus luctuosus (Blackwall, 1836)

Material (Fig. 310): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 2 ♂, dark coniferous forest with *Tilia*, 13.VI.2015, leg. A.N. Sozontov; Chutyr (13): 1 ♂, dark coniferous forest with *Tilia*, 4.VI.2011, leg. E.S. Shirobokova; 2 ♂, *Abies-Picea* forest, 14.VI.2012, leg. E.S. Shirobokova; 1 ♀, dark coniferous forest with *Tilia*, 29.VI.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♂, faunistic record, 21.VI.2017, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 7.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 13.VI.2017, leg. S.A. Shirobokova; 5 ♂, 2 ♀, *Pinus* forest, 21.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VI.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 21.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 24.V.2018, leg. S.A. Shirobokova; 3 ♂, 1 ♀, *Pinus* forest, 13.VI.2018, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 20.VI.2018, leg. S.A. Shirobokova;

2 ♂, 1 ♀, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 3 ♂, *Pinus* forest, 4.VII.2017, leg. S.A. Shirobokova; 3 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Biotopic preferences: III – Upland coniferous forests (24 %), II – Woodlands (21 %), IV – *Pinus* forests (19 %), I – All the habitats (10 %), III – Upland mixed forests (6 %).

Associated species. Quantitative: *Zora nemoralis* (0.40), *Diplocephalus latifrons* (0.32), *Minyriolus pusillus* (0.31), *Zelotes clivicola* (0.30), *Haplodrassus soerenseni* (0.27). **Qualitative:** *Agyneta subtilis* (0.54), *Haplodrassus soerenseni* (0.48), *Minyriolus pusillus* (0.47), *Zelotes clivicola* (0.43), *Alopecosa aculeata* (0.41).

Stratum: ground, herb.

Range: Holarctic (Circum-Holarctic) Temperate.

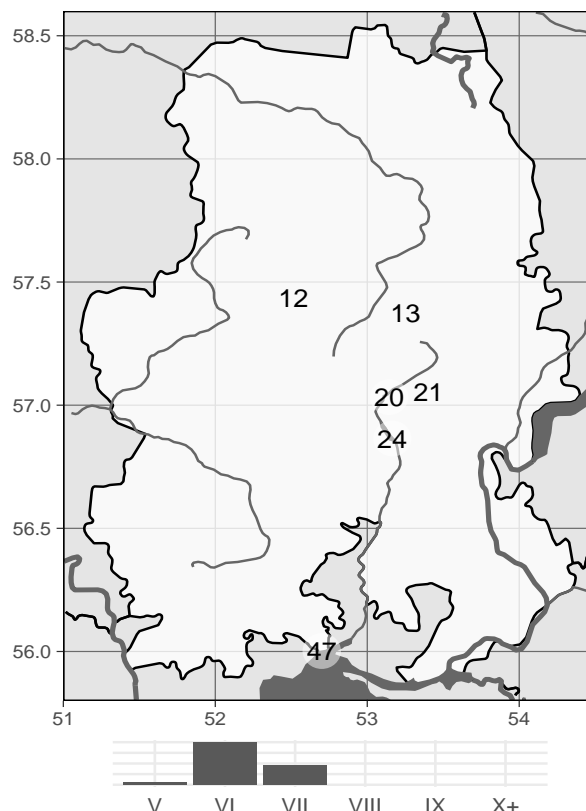


Fig. 310. Distribution map and phenology of *X luctuosus*

Xysticus ulmi (Hahn, 1831)

Material (Fig. 311): Alnashy Distr.: Staryi Utchan (45): 1 ♀, edge of mixed forest, 8.VII.2009, leg. A.N. Sozontov; Golushurma (47): 1 ♀, upland meadow, 3.VI.2015, leg. A.N. Sozontov; Balezino Distr.: Sergino (5): 1 ♀, faunistic record, 6.VI.2011, leg. S.V. Dedyukhin; Glazov Distr.: Lyum (4): 1 ♀, open raised bog, 1.VIII.2014, leg. A.N. Sozontov; Igra Distr.: Chutyr (13): 1 ♀, bottomland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♂, upland meadow, 14.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 25.VI.2011, leg. E.S. Shirobokova; 1 ♀, upland meadow, 14.VI.2012, leg. E.S. Shirobokova; Izhevsk (24): 1 ♀, *Abies-Picea* forest, 26.VII.2009, leg. A.N. Sozontov; Karakulino Distr.: Shignanda (50): 1 ♀, sloping steppe meadow, 15.VI.2012, leg. A.N. Sozontov; 7 ♀, open lake shore, 16.VI.2012, leg. A.N. Sozontov; Cheganda (52): 1 ♀, sloping steppe meadow, 16.VI.2012, leg. A.N. Sozontov; Malyashi (53): 5 ♀, floodplain meadow, 11.VI.2011, leg. A.N. Sozontov; 2 ♂, 1 ♀, open lake shore, 11.VI.2011, leg. A.N. Sozontov; Kizner Distr.: Krymskaya Sludka (44): 1 ♀, open river bank, 25.V.2013, leg. A.N. Sozontov; Malaya Purga Distr.: Malaya Purga (38): 1 ♂, 1 ♀, anthropogenic habitat, 7.VI.2012, leg. A.N. Sozontov; Sarapul Distr.: Nechkino Zakamye (40): 1 ♂, dark coniferous forest with *Tilia*, 9.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 9.VI.2009, leg. A.N. Sozontov; 1 ♂, floodplain steppified meadow, 10.VI.2009, leg. A.N. Sozontov; Bima (42): 2 ♀, faunistic record, 4.VI.2011, leg. A.N. Sozontov; 2 ♂, 3 ♀, *Pinus* forest, 4.VI.2011, leg. A.N. Sozontov; Sokolovka (43): 2 ♂, 1 ♀, bottomland meadow, 19.VI.2017, leg. K.S. Tatarkin; 1 ♀, sloping steppe meadow, 17.VIII.2017,

leg. K.S. Tatarkin; Sharkan Distr.: Sharkan (22): 1 ♂, floodplain steppified meadow, 26.VI.2012, leg. A.N. Sozontov; Votkinsk Distr.: Leducchi (32): 1 ♀, faunistic record, 23.VI.2013, leg. V.I. Zakharov; 'Siva' biostation (Perevozhnoe) (33): 1 ♂, floodplain steppified meadow, 15.VI.2008, leg. A.N. Sozontov; 1 ♂, 1 ♀, open lake shore, 15.VI.2008, leg. A.N. Sozontov; 2 ♀, faunistic record, 13.VI.2012, leg. S.V. Dedyukhin; 3 ♀, edge of deciduous forest, 6.VII.2014, leg. A.V. Uskova; 2 ♂, 1 ♀, floodplain herb meadow, 7.VI.2017, leg. A.N. Sozontov; 1 ♀, bottomland meadow, 8.VI.2017, leg. Ya.A. Chuvashева; 3 ♀, upland meadow, 8.VI.2017, leg. A.N. Sozontov; 5 ♂, 4 ♀, bottomland meadow, 15.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 1 ♀, bottomland meadow, 21.VI.2017, leg. Ya.A. Chuvashева; 4 ♂, 4 ♀, bottomland meadow, 22.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 1 ♀, bottomland meadow, 29.VI.2017, leg. Ya.A. Chuvashева; 1 ♂, 3 ♀, bottomland meadow, 12.VII.2017, leg. Ya.A. Chuvashева; Siva's delta (34): 1 ♀, floodplain *Quercus* forest, 21.VI.2009, leg. A.N. Sozontov; 1 ♀, floodplain steppified meadow, 21.VI.2009, leg. A.N. Sozontov; 2 ♀, floodplain *Quercus* forest, 10.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 11.VI.2013, leg. A.V. Uskova; 1 ♀, floodplain *Quercus* forest, 12.VI.2013, leg. A.V. Uskova; 2 ♀, floodplain *Quercus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 21.VI.2013, leg. A.V. Uskova; 1 ♀, *Pinus* forest, 2.VII.2013, leg. A.V. Uskova; Noviy (35): 2 ♀, edge of mixed forest, 21.VI.2007, leg. A.N. Sozontov; 1 ♂, sloping steppe meadow, 18.VI.2008, leg. A.N. Sozontov; 1 ♀, sloping steppe meadow, 19.VI.2009, leg. A.N. Sozontov; 1 ♀, faunistic record, 10.VII.2012, leg. S.V. Dedyukhin; Volkovski (36): 1 ♀,

bog, 12.VI.2010, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♀, *Pinus* forest, 31.V.2018, leg. S.A. Shirobokova; Yarskiy Distr.: Perelom (1): 1 ♀, bog, 2.VIII.2014, leg. A.N. Sozontov; 1 ♀, floodplain meadow, 9.VII.2015, leg. A.N. Sozontov; Zavyalovo Distr.: Volozhka (26): 1 ♂, 2 ♀, floodplain meadow, 15.VI.2010, leg. A.N. Sozontov; Khohryaki (27): 1 ♂, 1 ♀, dark coniferous forest with *Tilia*, 20.V.2013, leg. A.N. Sozontov; Pozym Kabanikha (28): 1 ♂, 1 ♀, floodplain steppified meadow, 28.V.2013, leg. A.N. Sozontov.

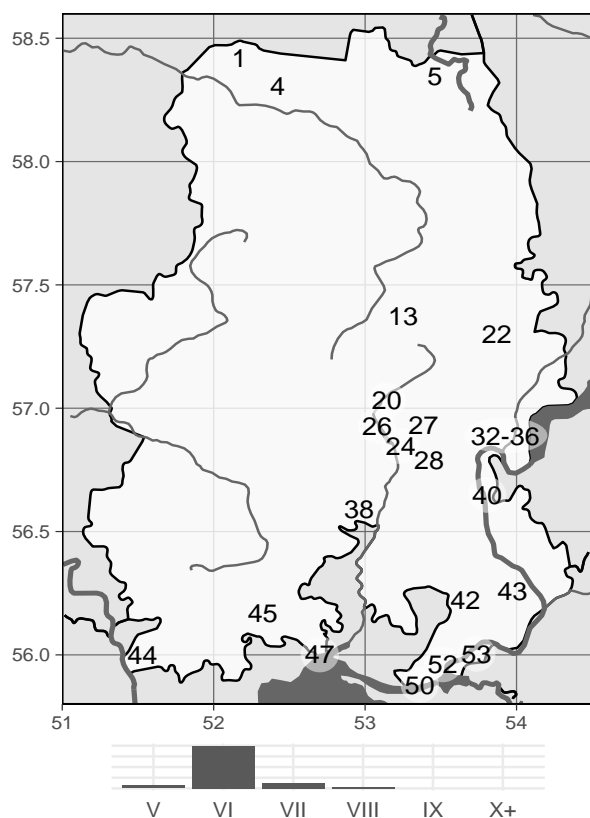


Fig. 311. Distribution map and phenology of *X. ulmi*

Biotope preferences: I – All the habitats (24 %), III – Floodplain meadows (23 %), IV – Edges of mixed forests (18 %), II – Meadowlands (13 %), IV – Open banks of stagnant waters (12 %).

Associated species. Quantitative: *Heliophanus auratus* (0.37), *Evarcha*

arcuata (0.31), *Cheiracanthium erraticum* (0.29), *Hypsosinga pygmaea* (0.28), *Tetragnatha pinicola* (0.27). **Qualitative:** *Evarcha arcuata* (0.41), *Singa hamata* (0.35), *Tetragnatha pinicola* (0.33), *Dictyna arundinacea* (0.33), *Cheiracanthium erraticum* (0.32).

Stratum: herb.

Range: Palaearctic (West-Central-Palaearctic) Temperate.

3.25. TITANOECIDAE

Titanoeca praefica (Simon, 1870)

Material: Yakshur-Bodya Distr.: Selychka (16): 2 ♀, edge of coniferous forest, 3.VII.2014, leg. A.N. Sozontov.

Stratum: ground, litter.

Range: Palaearctic (West-Palaearctic) Subboreal-subarid.

Titanoeca quadriguttata (Hahn, 1833)

Material (Fig. 312): Yakshur-Bodya Distr.: SNT 'Sirius' (20): 1 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 2 ♂, watershed coniferous forest, 1.VII.2018, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 22.VII.2018, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 1 ♂, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova; 2 ♂, *Pinus* forest, 20.VI.2018, leg. S.A. Shirobokova; 4 ♂, *Pinus* forest, 1.VII.2018, leg. S.A. Shirobokova.

Associated species. Quantitative: *Xysticus audax* (0.40), *Lathys heterophthalma* (0.30), *Zora nemoralis* (0.29), *Cercidia prominens* (0.29), *Lathys humilis* (0.29). **Qualitative:** *Metapanamomops kaestneri* (0.50), *Lathys heterophthalma* (0.44), *Lathys humilis* (0.44), *Zora nemoralis* (0.43), *Agyneta subtilis* (0.38).

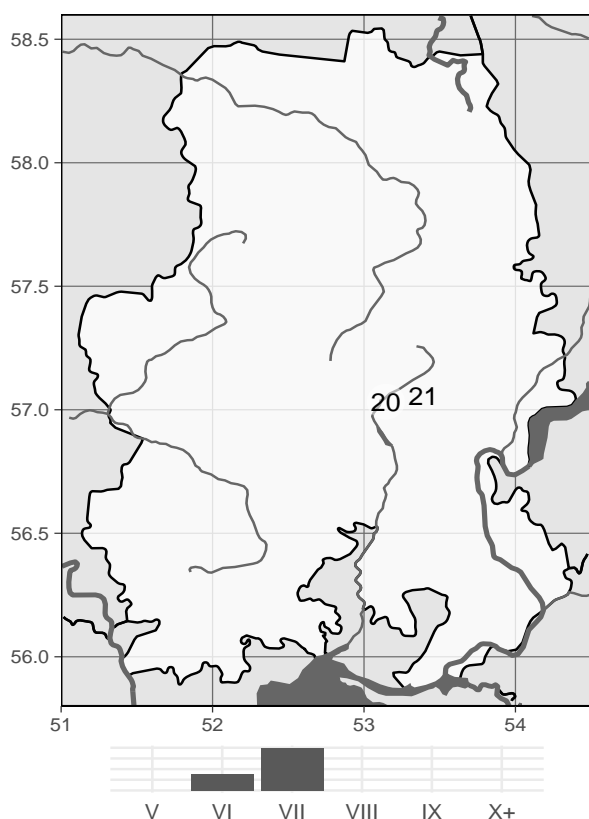


Fig. 312. Distribution map and phenology of *T. quadriguttata*

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal-subarid.

Titanoeca schineri L. Koch, 1872

Material (Fig. 313): Alnashy Distr.: Golushurma (47): 1 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; 1 ♀, 1 subadult ♂, sloping steppe meadow, 15.VII.2013, leg. A.N. Sozontov; Yakshur-Bodya Distr.: SNT 'Sirius' (20): 2 ♂, watershed coniferous forest, 28.VI.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 5.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 11.VII.2017, leg. S.A. Shirobokova; 1 ♂, watershed coniferous forest, 21.VII.2017, leg. S.A. Shirobokova; Urochishche 'Skipidarka' (21): 2 ♂, *Pinus* forest, 27.VI.2017, leg. S.A. Shirobokova; 1 ♂, *Pinus* forest, 10.VII.2017, leg. S.A. Shirobokova;

1 ♂, *Pinus* forest, 17.VII.2017, leg. S.A. Shirobokova.

Associated species. Quantitative:

Walckenaeria furcillata (0.35), *Cnephalocotes obscurus* (0.30), *Argenna subnigra* (0.28), *Glyphesis nemoralis* (0.27), *Mastigusa arietina* (0.21).

Qualitative: *Walckenaeria furcillata* (0.43), *Metapanamomops kaestneri* (0.40), *Glyphesis nemoralis* (0.31), *Thanatus sabulosus* (0.27), *Agyneta affinis* (0.27).

Stratum: ground, litter.

Range: Euro-Siberian (European-WestSiberian) Subboreal-subarid.

Titanoeca spominima (Taczanowski, 1866)

Material (Fig. 314): Alnashy Distr.: Golushurma (47): 1 ♀, 6 subadult ♂, 6 subadult ♀, sloping steppe meadow, 15.IX.2012, leg. A.N. Sozontov; 3 ♂, sloping steppe meadow, 28.V.2013, leg. A.N. Sozontov; 10 ♂, sloping steppe meadow, 4.VI.2013, leg. A.N. Sozontov; 2 ♂, sloping steppe meadow, 17.VI.2013, leg. A.N. Sozontov; Igra Distr.: Novye Zyatci (12): 10 ♂, *Pinus* forest, 13.VI.2015, leg. A.N. Sozontov; 2 ♂, *Pinus* forest, 1.VII.2015, leg. A.N. Sozontov; Yakshur-Bodya Distr.: Selychka (16): 2 ♀, 1 subadult ♂, *Pinus* forest, 29.VI.2013, leg. A.N. Sozontov.

Associated species. Quantitative:

Callilepis nocturna (0.22), *Mustelicosa dimidiata* (0.20), *Rhysodromus histrio* (0.18), *Attulus dzieduszyckii* (0.15), *Phlegma fasciata* (0.13).

Qualitative: *Mustelicosa dimidiata* (0.53), *Alopecosa farinosa* (0.30), *Spiracme striatipes* (0.30), *Attulus dzieduszyckii* (0.29), *Alopecosa solitaria* (0.27).

Stratum: ground, litter.

Range: Euro-Siberian (European) Subboreal-subarid.

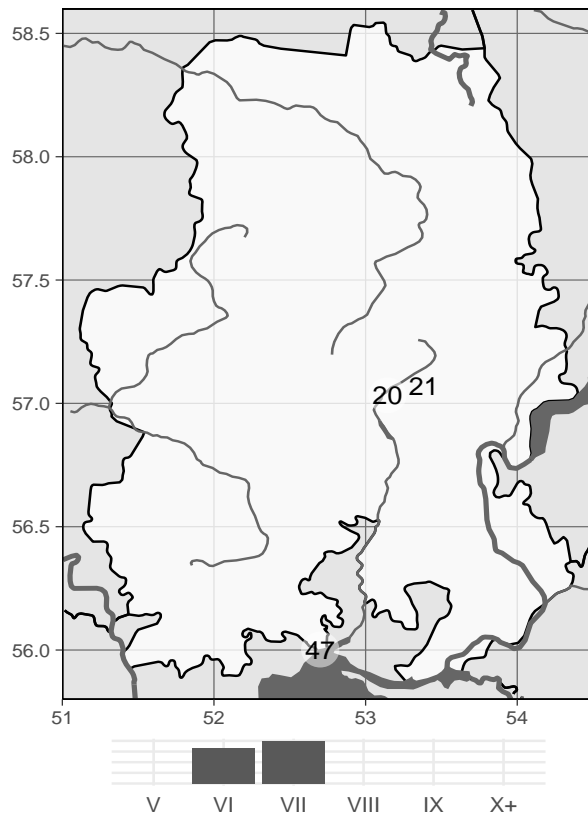


Fig. 313. Distribution map and phenology of *T. shineri*

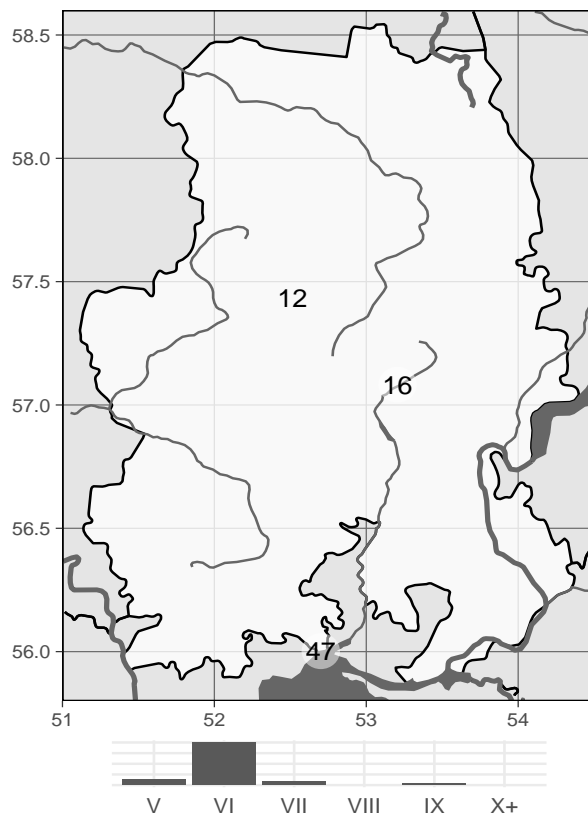


Fig. 314. Distribution map and phenology of *T. spominima*

3.26. ULOBORIDAE

Uloborus walckenaerius Latreille, 1806

Material (Fig. 315): Votkinsk
Distr.: Noviy (35): 1 ♀, steppified meadow, 30.VI.2017, leg. A.N. Sozontov;
 Volkovskiy (36): 1 ♂, open raised bog, 18.VI.2009, leg. A.N. Sozontov.

Stratum: herb.

Range: Palaearctic (Trans-Palaearctic)
 Subboreal-subarid

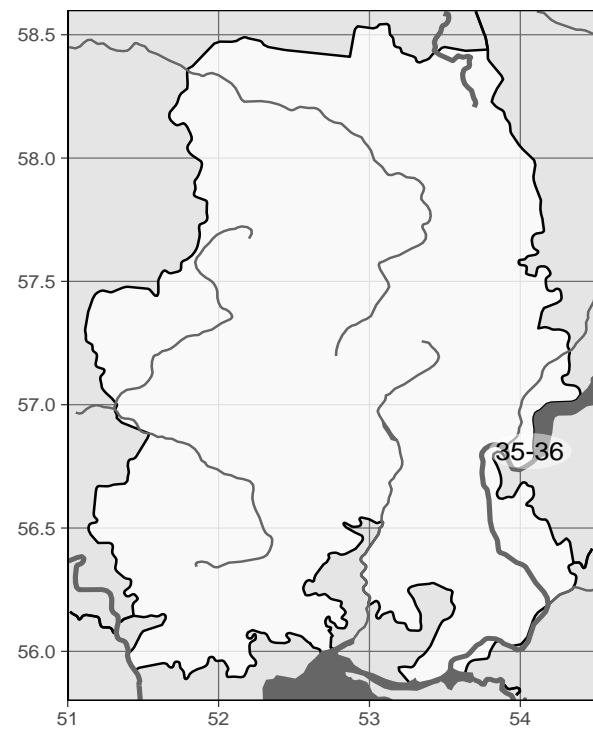


Fig. 315. Distribution map of *U. walckenaerius*

4. Conclusion

The result of the present study is a complex faunistic investigation of the entire spider fauna of Udmurtia. To date, the regional spider fauna consists of 403 species in 180 genera and 26 families, of which 14 species have been recorded from the east part of the Russian Plain for the first time, and one (*Tetragnatha shoshone*) is new to Russia. Yet, three species have been re-described on the basis of the material from the Udmurt Republic [Sozontov, Esyunin, 2015; Esyunin, Sozontov, 2015]. The species richness of the fauna at hand accounts for 30% of the spider fauna of the Russian Plain, 17% and 9% of Russian and European faunas, respectively.

We have carried out an expert estimation of a total spider richness in the fauna of Udmurtia, based both on the species lists of adjacent regions [Esyunin, Efimik, 1996; Esyunin, 2009, 2015a, Esyunin et al., 2011; Krasnobaev, 2004; Gainutdinova, Bespyatykh, 2014) and on the publications

summarizing general spider species distribution [Mikhailov, 1997, 2013a; van Helsdingen, 2017; Nentwig et al., 2021]. A total number of species in Udmurtia is likely to be 500–530 species. Given the currently recorded 430 species, a significant progress in the inventory of Udmurtian spiders have already been achieved. Incidentally, the spider fauna of the Udmurtia consists of more species than those of some adjacent regions having a notably larger territory: viz., Kirov Area and the Republic of Tatarstan (Table 4).

The present data also contribute to the knowledge of spider habitat preferences and diversity. Table 5 contains a number of species in different habitat types, taking into account their hierarchical relations. Additionally, we have provided schemes of biotopical complexes based on indicator values analysis (Fig. 316–320). Each complex includes up to 10 most typical species which have been selected by the

Table 4. Species number in spider faunas in some federal subjects of Russia.

Federal subjects of Russia	Area, km ²	Number of species	Species to 1000 km ²	References
Novosibirsk Area	178 200	364	2,0	[Azarkina et al., 2018]
Perm Territory	160 600	542	3,4	Esyunin, personal data
Republic of Bashkortostan	143 600	459	3,2	[Esyunin, 2009; Esyunin, 2015a]
Kirov Area	120 800	296	2,5	[Esyunin et al., 2011]
Republic of Tatarstan	68 000	321	4,7	[Gainutdinova, Bespyatykh, 2014]
Samara Area	53 600	470	8,8	[Krasnobaev, 2004]
Udmurt Republic	42 100	403	9,6	Present data
Ulyanovsk Area	37 300	429	11,5	[Kuzmin, 2015]
Mari El Republic	23 200	389	16,8	[Krasnobaev, 2004]

highest IndVal indices. These data are useful for species autecology research, as well as for complex investigations of spider communities.

The following species may be considered the most eurytopic: *Pardosa lugubris* (50), *Trochosa ruricola* (50), *Pardosa fulvipes* (44), *Alopecosa pulverulenta* (35), *Pardosa palustris* (35), *Evarcha arcuata* (33), *Alopecosa cuneata* (32), *Zelotes subterraneus* (31), *Trochosa terricola* (28), *Ozyptila praticola* (27).

The primary data on species occurrences is essential for their conservation, both theoretical and practical, and the present book contributes to this field. T.L. Zubko

[2001] included three spider species into the Red Data Book of the Udmurt Republic: *Allohogna singoriensis* (Laxmann, 1770), *Eresus kollari* Rossi, 1846 and *Arctosa perita* (Latreille, 1799). However, in the second edition of the Red Data Book *A. perita* was excluded from the regional list of endangered species [Adakhovskiy et al., 2012], because, given its general distribution, the species seemed to be mistakenly reported for Udmurtia. A long-term, purposeful searching for *A. singoriensis* near Doksha village (Zavyalovo District) was unsuccessful, and therefore this locality was excluded from the species' occurrence. At present, most

Table 5. Number of spider species in partial faunas of the three hierarchy levels.

Level II	Level III	Level IV
Forests: 293	Floodplain deciduous forests: 146	<i>Quercus</i> forests: 114 Riverain deciduous forests: 92
	Watershed <i>Tilia</i> forests: 70	<i>Tilia</i> forests: 70
	Watershed coniferous forests: 233	<i>Pinus</i> forests: 209 <i>Abies-Picea</i> forests: 82
	Watershed mixed forests: 143	Dark coniferous forests with <i>Tilia</i> : 120
Meadows: 244	Floodplain meadows: 163	Floodplain steppified meadows: 79 Bottomland meadows: 137
	Watershed meadows: 205	Upland meadows: 136
		Sloping steppe meadows: 165
Ecotones: 133	Forest edges: 133	Edges and glades of deciduous forests: 65
		Edges and glades of mixed forests: 52
		Edges and glades of coniferous forests: 79
Wetlands: 160	Bogs: 68	Open raised bogs: 57 Forested raised bogs: 9
		Open lake and pond shores: 69
	Banks and shores: 134	Open river banks: 107
		<i>Alnus</i> groves: 37
		Heated dwellings: 15
Anthropogenic habitats: 112	Indoor spaces: 44	Unheated premises: 39
	Agrocoenoses: 85	Agrocoenoses: 85

other sites reported by T.L. Zubko [2001] for *A. singoriensis* seem to be also doubtful. The first author and S.V. Dedyukhin have confirmed only two regional localities for this species: Golushurma (Alnashy District) and Krymskaya Sludka (Kizner District). Finally, all of the localities of *Eresus kollari* remain unverified by the pertinent material or photos. Therefore, it is necessary to carefully re-examine all the sites where endangered spider species were found and to search for new ones, including a preliminary prediction of their occurrence by means of the species distribution modeling (SDM) tools.

There are five spider species that are not directly included in the Red Data Book but mentioned in a supplement (alarm-list) as needing targeted monitoring. Having been included in the IUCN Red List [World Conservation..., 1996], *Dolomedes plantarius* requires such attention automatically. In fact, *D. plantarius* is quite rare in Udmurtia; most of the *Dolomedes* specimens we have examined belong to *D. fimbriatus*. *Argyroneta aquatica* has an underwater lifestyle, its actual distribution and population density remain unclear, as freshwater bottoms are usually out of arachnologists' research focus. *Araneus angulatus* is a big orb-weaver, locally distributed, which has a long lifecycle and low population density, therefore being susceptible to a vulnerable status. A big wolf spider *Arctosa cinerea* inhabits sandy and gravel river banks where it could apparently have been recorded probably as *A. singoriensis* by mistake. However, protection or at least monitoring is necessary because of habitat degradation due to increasing recreation press on river banks. *Pisaura mirabilis* was considered rare at the early stages of arachnological studies in Udmurtia, but currently its abundance is out of concern.

A few more species are the matter of concern due to their general distribution and also association with regionally restricted habitats and landscapes: *Aelurillus v-insignitus*, *Heliophanus lineiventris*, *Mustelicosia dimidiata*, *Phlegra fasciata*, *Uloborus walckenaerius*, *Zelotes mundus*. Due to ongoing global climate changes, more attention is also to be paid to such boreal species as: *Erigonella ignobilis*, *Hahnina sibirica*, *Heliophanus camtschadalicus*, *Maro pansibiricus*, *Saaristoa abnormis*, *Tenuiphantes alacris*.

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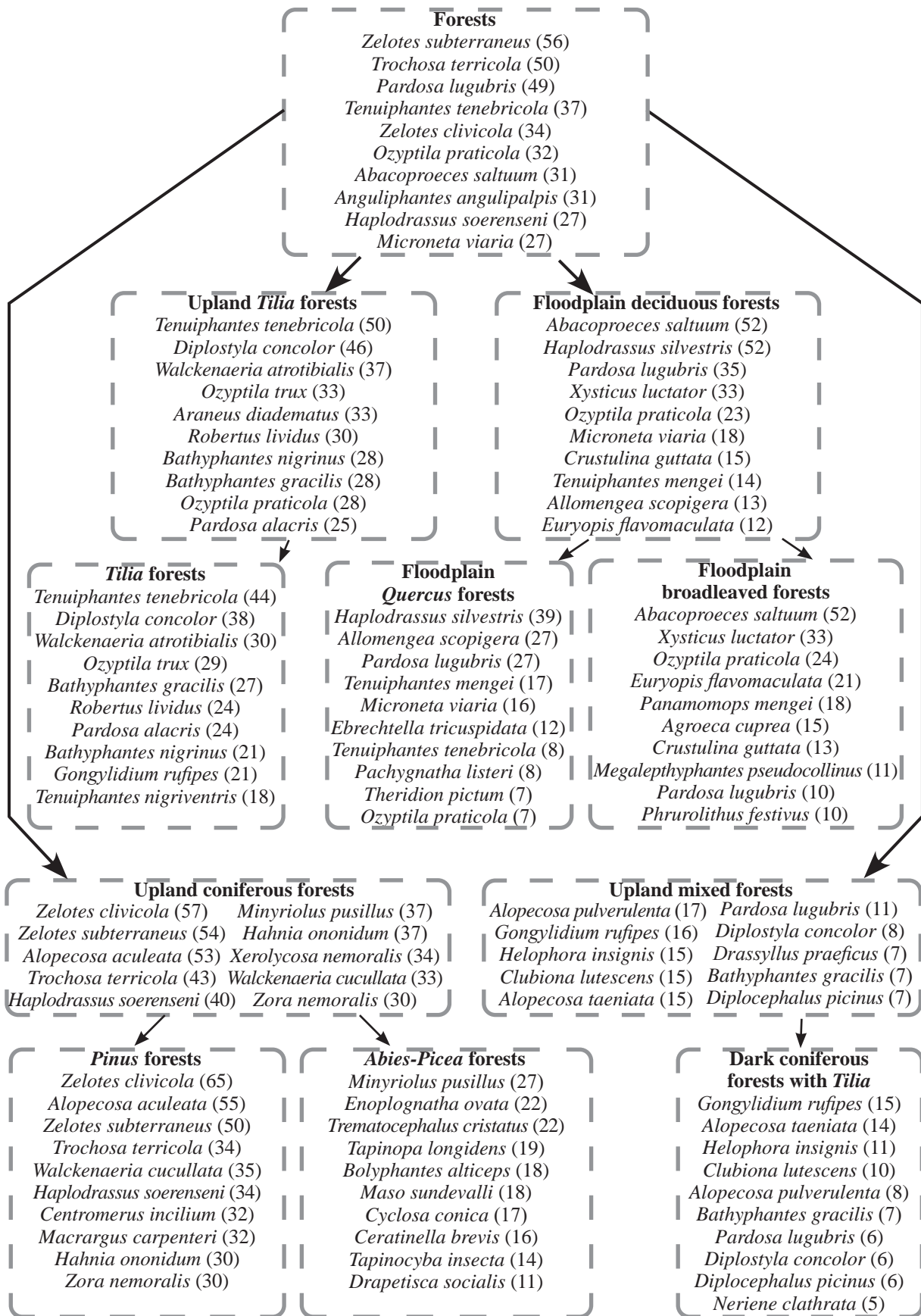


Fig. 316. Forest spider complexes; bracketed numbers show IndVal (%)

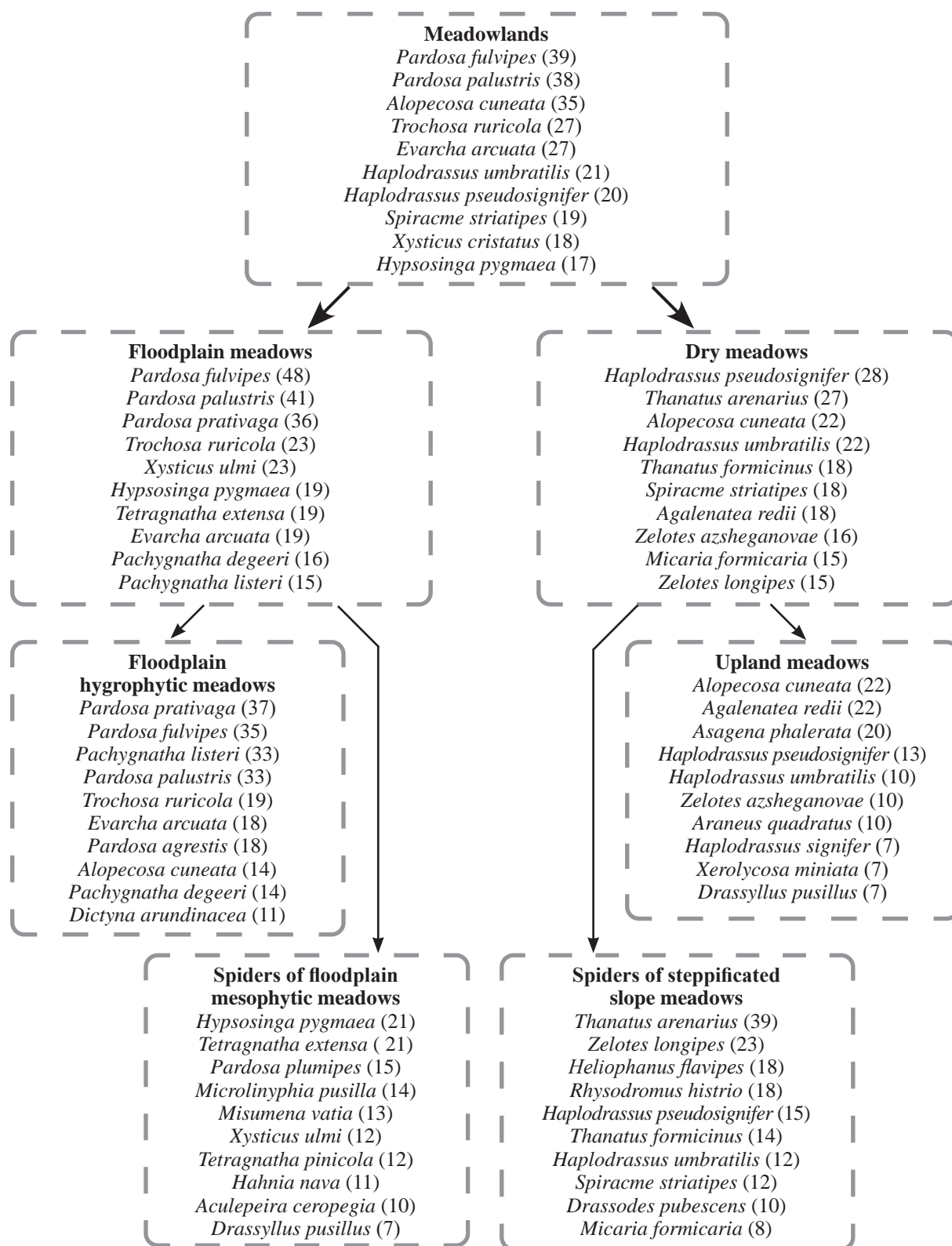


Fig. 317. Meadow spider complexes; bracketed numbers show IndVal (%)

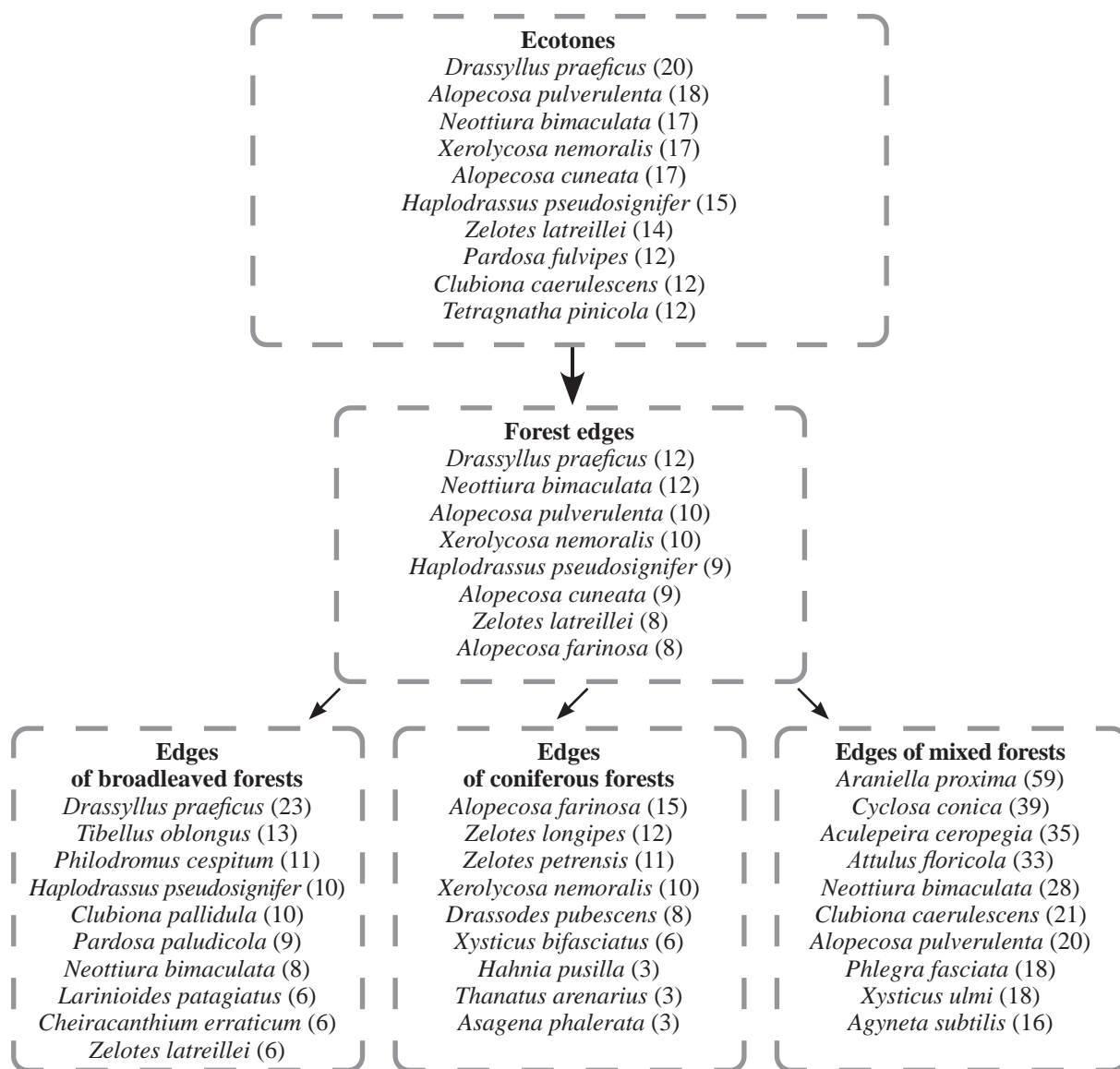


Fig. 318. Ecotone spider complexes; bracketed numbers show IndVal (%).

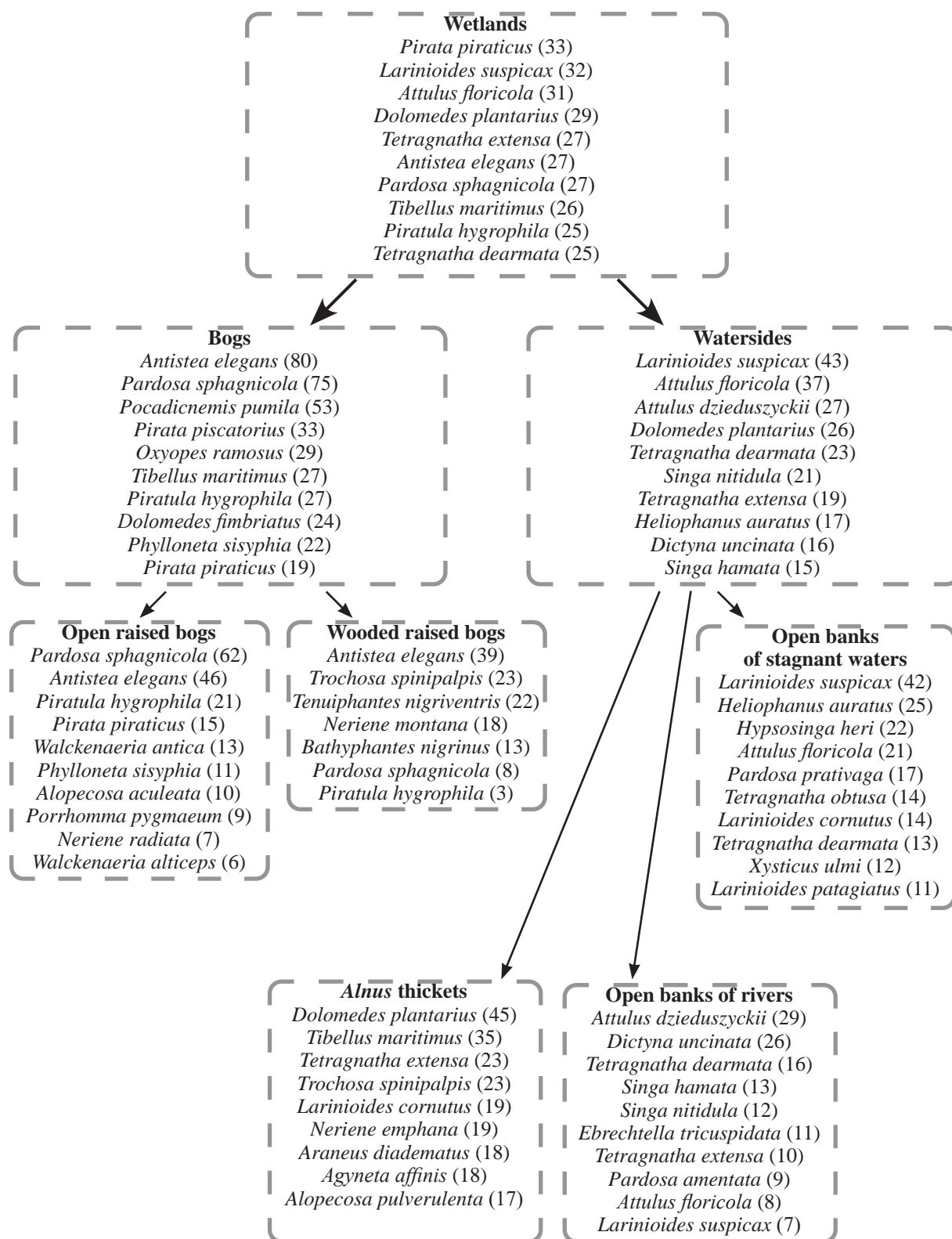


Fig. 319. Wetland spider complexes; bracketed numbers show IndVal (%)

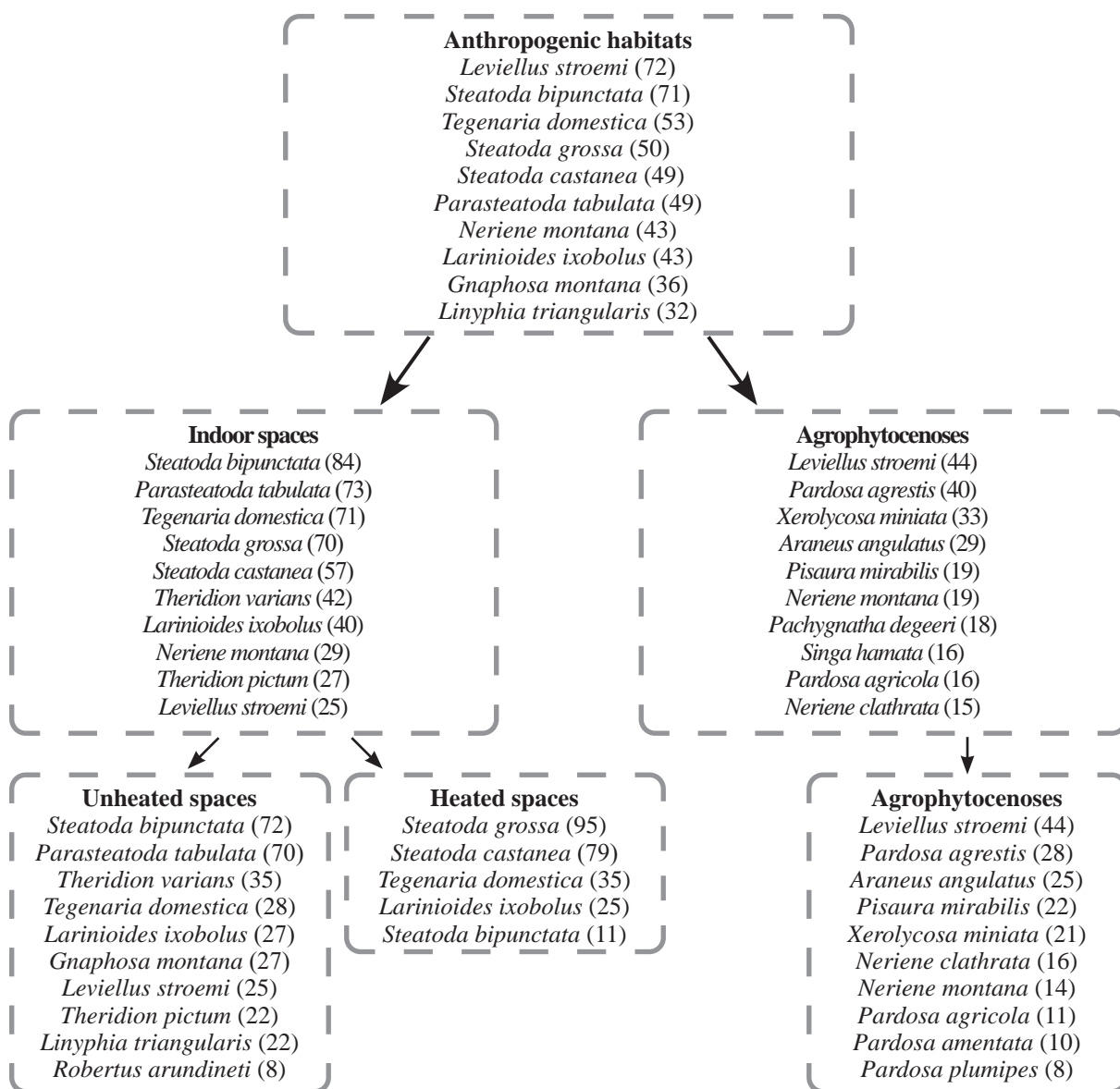


Fig. 320. Anthropogenic spider complexes; bracketed numbers show IndVal (%).

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